

SERVICE MANUAL

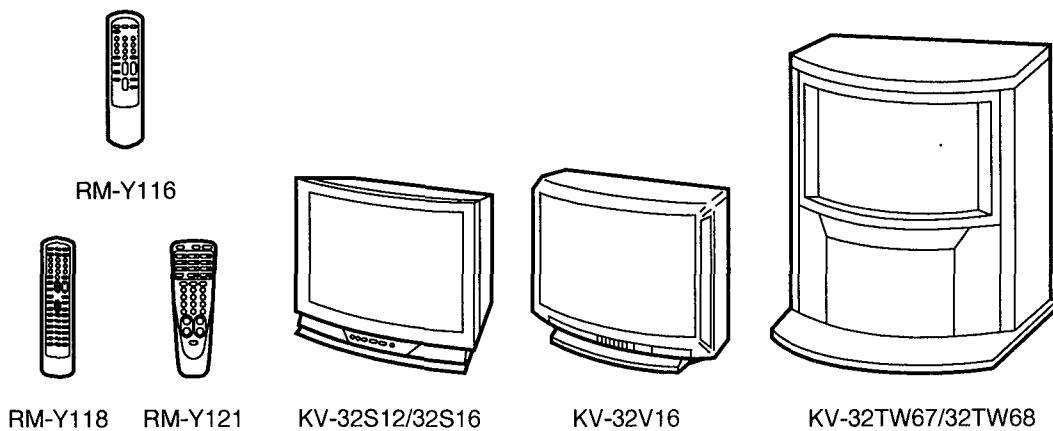
AA - 1 CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. | MODEL | COMMANDER | DEST. | CHASSIS NO. |
|----------|-----------|----------|-------------|-----------|-----------|----------|-------------|
| KV-32S12 | RM-Y116 | US | SCC-F84V-A | KV-32TW67 | RM-Y118 | US | SCC-F84Y-A |
| KV-32S12 | RM-Y116 | Canadian | SCC-F85S-A | KV-32TW68 | RM-Y118 | US | SCC-H76A-A |
| KV-32S16 | RM-Y121 | US | SCC-F84W-A | KV-32V16 | RM-Y121 | US | SCC-F84X-A |
| KV-32S16 | RM-Y121 | Canadian | SCC-F85T-A | KV-32V16 | RM-Y121 | Canadian | SCC-F85R-A |

Note :

1. Adjustment Manual for this model is separately published.

| | |
|----------|-------------------|
| | Adjustment Manual |
| Part No. | 9-965-038-01 |



**TRINITRON® COLOR TV
SONY®**

* Please file according to model size. ■

SPECIFICATIONS

KV-32S12

| | | |
|----------------------|--|--|
| Television system | American TV standards | maximum volume setting (variable) |
| Channel coverage | VHF : 2 - 13 UHF : 14 - 69 CATV : 1 - 125 | More than 408 mVrms (fix) Impedances : 5 kilo-ohms |
| Picture tube | Hi-Black™ Trinitron® tube 32-inch picture measured diagonally | Speaker output 5 W x 2 |
| Antenna | 75-ohm external antenna terminal for VHF/UHF | Power requirements 120 V AC, 60 Hz |
| Input | VIDEO and S VIDEO S VIDEO IN Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal), 75-ohms Video : 1 Vp-p, 75-ohms unbalanced, sync negative Audio : 500 mVrms (100% modulation) Impedance : 47 kilo-ohms | Power consumption When in use : 195 W In standby : 6 W Dimensions (W/H/D) 781 x 714 x 613 mm (30 3/4 x 28 1/8 x 24 1/4 inches) |
| Speaker output | 5 W x 2 | Weight 69 kg (152 lbs 9 oz) |
| Power requirements | 120 V AC, 60 Hz | Supplied accessories Remote Commander RM-Y121 (1) with 1 size AA (R6) battery |
| Power consumption | When in use : 190 W In standby : 6 W | Optional accessories U/V mixer EAC-66 Connecting cable VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A |
| Dimensions (W/H/D) | 781 x 714 x 613 mm (30 3/4 x 28 1/8 x 24 1/4 inches) | |
| Weight | 69 kg (152 lbs 9 oz) | |
| Supplied accessories | Remote Commander RM-Y116 (1) with 2 size AA (R6) batteries | |
| Optional accessories | U/V mixer EAC-66 Connecting cable VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A | |

KV-32S16

| | | |
|-------------------|--|---|
| Television system | American TV standards | maximum volume setting (variable) |
| Channel coverage | VHF : 2 - 13 UHF : 14 - 69 CATV : 1 - 125 | More than 408 mVrms (fix) Impedances : 5 kilo-ohms |
| Picture tube | Hi-Black™ Trinitron® tube 32-inch picture measured diagonally | Speaker output 5 W x 2 |
| Antenna | 75-ohm external antenna terminal for VHF/UHF | Power requirements 120 V AC, 60 Hz |
| Input | VIDEO and S VIDEO S VIDEO IN Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal), 75-ohms Video : 1 Vp-p, 75-ohms unbalanced, sync negative Audio : 500 mVrms (100% modulation) Impedance : 47 kilo-ohms | Power consumption When in use : 195 W In standby : 6 W Dimensions (W/H/D) 895 x 1117 x 700 mm (35 1/4 x 44 x 27 5/8 inches) |
| Output | AUDIO OUT : More than 408 mVrms at the | Weight 108.6 kg (239 lbs) |
| | | Supplied accessories Remote Commander RM-Y118 (1) with 1 size AA (R6) battery |
| | | Optional accessories U/V mixer EAC-66 Connecting cable VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A |

KV-32V16

| | | | |
|-------------------|---|----------------------|---|
| Television system | American TV standards | Speaker output | 5 W x 2 |
| Channel coverage | VHF : 2 - 13 UHF : 14 - 69 CATV : 1 - 125 | Power requirements | 120 V AC, 60 Hz |
| Picture tube | Hi-Black™ Trinitron® tube 32-inch (736mm) picture measured diagonally | Power consumption | When in use : 205 W In standby : 6.5 W |
| Antenna | 75-ohm external antenna terminal for VHF/UHF | Dimensions (W/H/D) | 801 x 664 x 603 mm (31 5/8 x 26 1/4 x 23 3/4 inches) |
| Input | VIDEO and S VIDEO Video : 1 Vp-p, 75-ohms unbalanced, sync negative Audio : 500 mVrms (100% modulation) Impedance : 47 kilo-ohms | Weight | 70 kg (154 lbs 2 oz) |
| Output | AUDIO OUT : More than 408 mVrms at the maximum volume setting (variable) More than 408 mVrms (fix) Impedances : 5 kilo-ohms | Supplied accessories | Remote Commander RM-Y121 (1) with 1 size AA (R6) battery RM-CM101 |
| | | Optional accessories | U/V mixer EAC-66 Connecting cable VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A |

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINT SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DE ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE
LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE Á L'ALIMENTATION SECTEUR

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQÜÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

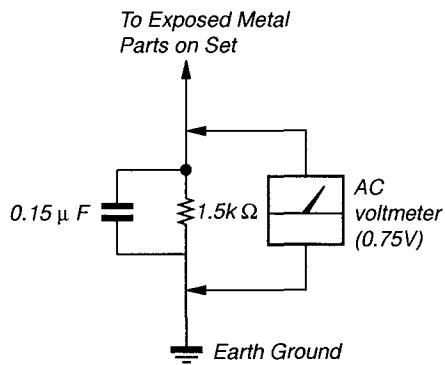


Fig. A. Using an AC voltmeter to check AC leakage.

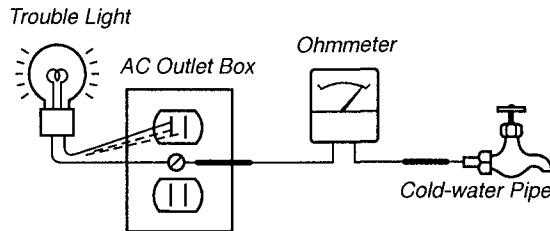


Fig. B. Checking for earth ground.

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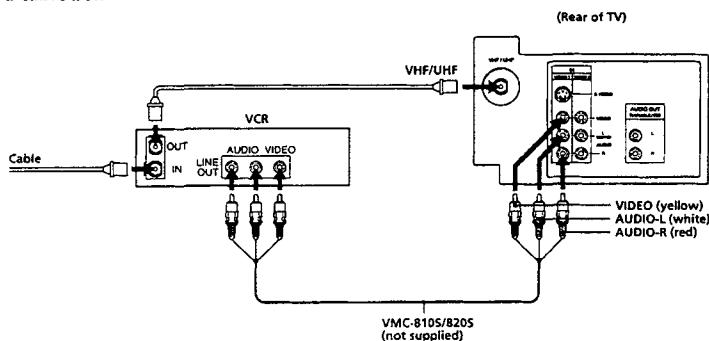
SECTION1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Connecting an antenna/cable TV system with a VCR

To connect your VCR to the TV, first check the model number of your TV and select the corresponding connection. For details on connection, see the instruction manual of your VCR. Before making connection, disconnect the AC power cords of the equipment to be connected.

Without a cable box

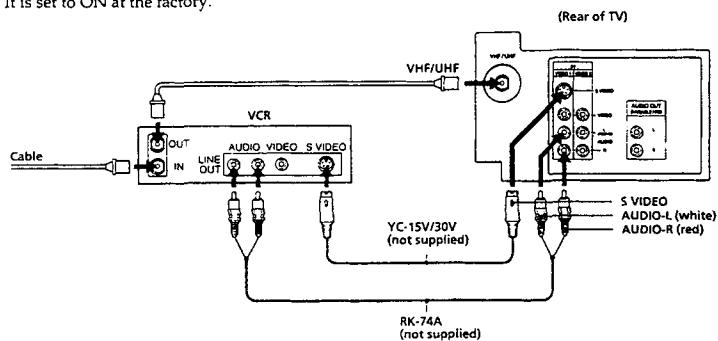


Note

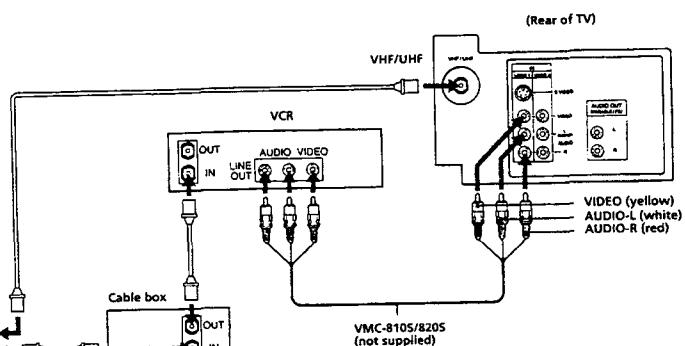
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 1 IN on the TV.

To an S video equipped VCR without a cable box

If your VCR has an S video output jack, hook up as follows and then set S VIDEO to ON on your TV (page 12). It is set to ON at the factory.



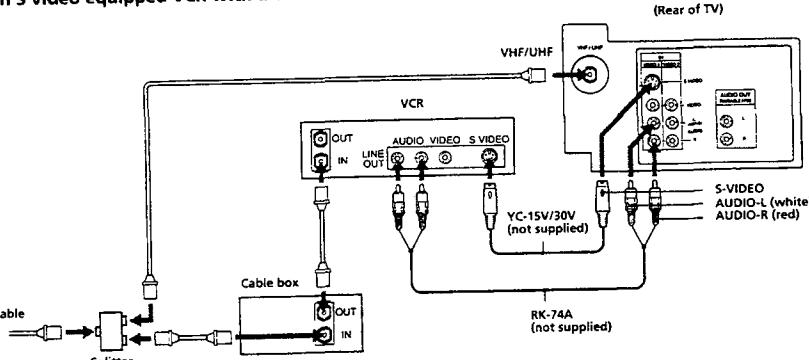
With a cable box



Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 1 IN on the TV.

To an S video equipped VCR with a cable box

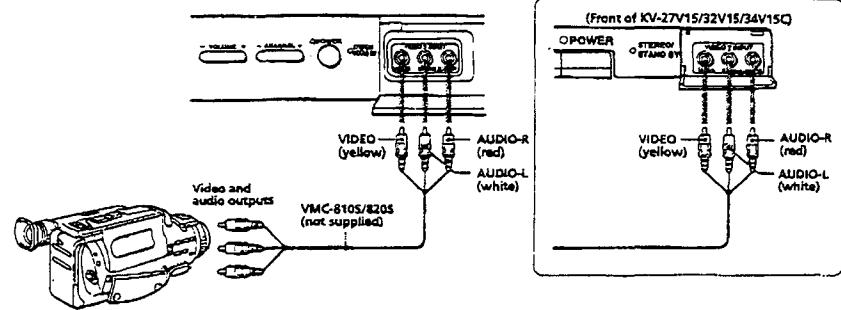


Note

- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

Connecting a camcorder

This connection is convenient for viewing a camcorder.

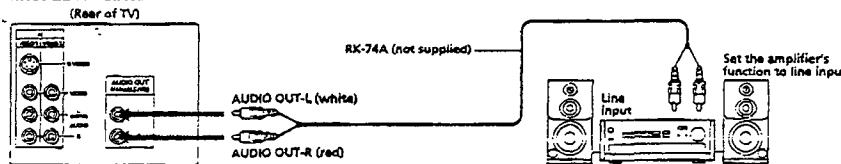


Note

- To connect a monaural camcorder, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 2 INPUT on the TV.

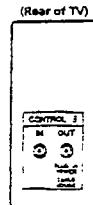
Connecting an audio system

When connecting audio equipment, see page 20 for more information.



Connecting other Sony equipment with CONTROL S jack

Connect the supplied cable box controller (Cable Mouse) to the CONTROL S OUT jack. Refer to the Cable Mouse's manual for details on the connection.



Make the following connections to control the TV and connected equipment with one remote commander.

- To control other Sony equipment with the TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the TV.
- To control the TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the TV.

Step 3: Setting up the TV automatically (AUTO SET UP)

- Press CH +.



"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed. If the TV receives cable TV channels, CATV is set to ON automatically.

Notes

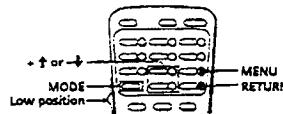
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 and 3 above to perform AUTO SET UP. (KV-32V15 only)

DEMO: To browse the main functions, Press VOL + in step 3. The functions and menus are displayed one by one.

FACTORY RESET: To restore the factory settings when you are confused about the TV settings, Press CH - in step 3. The settings of picture and sound are restored to the factory setting.

Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.

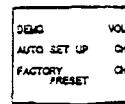


- Press POWER to turn the TV on.



- Press SET UP on the front of the TV.

The menu appears.



- Press MENU.

The main menu appears.



(continued)

2 Press + or - to move the cursor (>) to SET UP and press RETURN.
The SET UP menu appears.



3 Press + or - to move the cursor (>) to CH SET UP and press RETURN.
The CH SET UP menu appears.

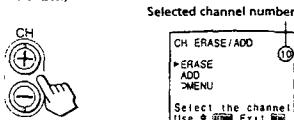


4 Press + or - to move the cursor (>) to CH ERASE/ADD and press RETURN.
The CH ERASE/ADD menu appears.



5 Erase and/or add the channel you want:
To erase an unwanted channel

- (1) Make sure the cursor (>) is beside ERASE.
- (2) Press CH +/- to select the channel you want to erase and,

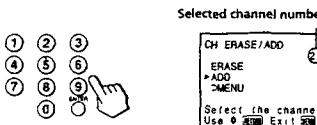


(3) press RETURN.
The indication “-” appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press + or - to move the cursor (>) to ADD.
- (2) Press the 0 - 9 buttons to select the channel you want to add and press ENTER and,



(3) press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



6 To erase and/or add other channels, repeat step 5.

7 When you finish, press MENU.



Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
- Erasing and adding channels are also available for the AUX input. (KV-32V15 only)

Setting cable TV on or off

For cable box control (Cable Mouse) users

Refer to the supplied Cable Mouse manual on how to set cable TV.

If you have connected the TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 10). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + or - to move the cursor (>) to SET UP and press RETURN.

3 Press + or - to move the cursor (>) to CH SET UP and press RETURN.



4 Set CABLE to ON or OFF:

- (1) Make sure the cursor (>) is beside CABLE and press RETURN.
If the cursor is not beside CABLE, press + or - to move the cursor and press RETURN.
- (2) Press + or - to select ON or OFF and, press RETURN.



5 Press MENU to return to the original screen.

Note

- If CH SET UP appears in black, the TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV so that a channel number appears.

Presetting channels

For cable box control (Cable Mouse) users

Refer to the supplied Cable Mouse manual on how to preset channels.

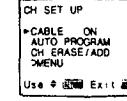
You can preset TV channels easily by using the AUTO PROGRAM feature.

You do not have to do this procedure if you execute AUTO SET UP (page 10). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + or - to move the cursor (>) to SET UP and press RETURN.

3 Press + or - to move the cursor (>) to CH SET UP and press RETURN.



4 Press + or - to move the cursor (>) to AUTO PROGRAM and press RETURN.



“AUTO PROGRAM” appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, “AUTO PROGRAM” disappears and the lowest numbered channel is displayed.

5 Press MENU to return to the original screen.

Notes

- If the CH SET UP menu appears in black, the TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV so that a channel number appears.
- Presetting channels is also available for the AUX input. (KV-32V15 only)

Setting S video on or off

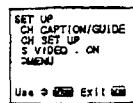
You can change the S VIDEO menu to ON or OFF.

1 Press TV/VIDEO to select VIDEO 1.

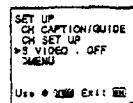
2 Press MENU.

3 Press + or - to move the cursor (>) to SET UP and press RETURN.

4 Press + or - to move the cursor (>) to S VIDEO and press RETURN.



5 Press + or - to select ON or OFF and press RETURN.



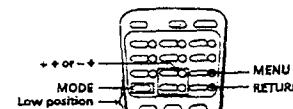
6 Press MENU to return to the original screen.

Notes

- If S VIDEO appears in black, set a video input to VIDEO 1.
- If you set S VIDEO to ON, the TV automatically receives S video signals whenever a VCR with S video is connected.

Changing the menu language

If you prefer Spanish to English, you can change the menu language.



1 Press MENU.

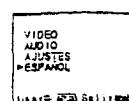
The main menu appears.



2 Press + or - to move the cursor (>) to ENGLISH and press RETURN.



3 Press + or - to select ESPAÑOL and press RETURN.

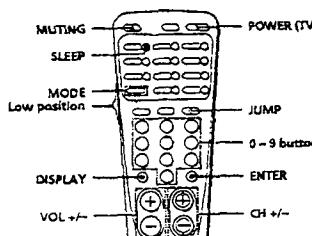
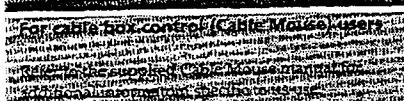


4 Press MENU to return to the original screen.

Note

- Certain parts of the ESPAÑOL menus remain in English.

Watching the TV



1 Press POWER (TV) to turn the TV on.



If "VIDEO" appears on the screen, press the TV/VIDEO or TV button so that a channel number appears.

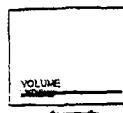
2 Select the channel you want:

To select a channel directly
Press the 0-9 buttons and then press ENTER.
To scan through channels
Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

3 Press VOL +/- to adjust the volume.



Note

- Set the CABLE BOX/TV selector to TV.

14 | Operations

Switching quickly between two channels

Press JUMP.

The channel you watched previously appears.



Pressing JUMP again switches back the channel.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Use this feature to check the channel number, channel caption (if set), and MTS mode (if SAP is selected).

Press DISPLAY.



To cancel the display, press DISPLAY again.

Setting the Sleep Timer

The TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn the TV off.

Changing the VHF/UHF input to the AUX input

■ KV-32V15/34V15C only

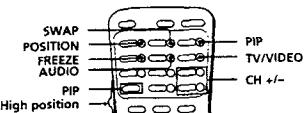
Press TV.



Pressing TV again switches back to the previous input.

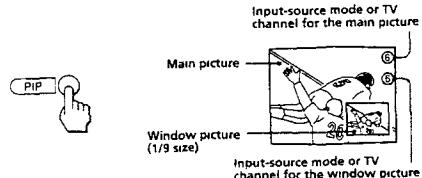
Watching two programs at a time —PIP

The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously. You can watch two TV channels at a time with this feature. See "Connecting an antenna/cable TV system with a VCR" (page 6) for connections.

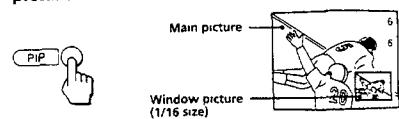


Displaying a window picture

Press PIP



Press PIP again to display a smaller window picture.



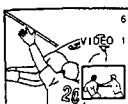
To remove the window picture, press PIP again.

Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture may be affected by the condition of the main picture.
- The window picture sound is also output from the VARIABLE/FIX AUDIO OUT jacks when you listen to

Changing the window picture input mode

Press TV/VIDEO in the PIP control area to select the input mode. Each time you press TV/VIDEO, "TV", "VIDEO 1", "VIDEO 2" and "VIDEO 3 (except for KV-27S15/29RS15)" appear in sequence.



A window picture will appear in the same input mode as the last time you used PIP.

Listening to the sound of the window picture

Press AUDIO.

The display appears for a few seconds, indicating that the window picture sound is being received.



To restore the main picture sound, press AUDIO again.

Changing TV channels in the window picture

Press CH +/- in the PIP control area.

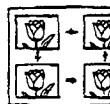


To remove the window picture, press PIP again.

Changing the position of the window picture

Press POSITION.

Each time you press POSITION, the window picture will move counterclockwise on the screen.



Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press FREEZE.

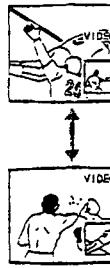


To restore the normal screen, press FREEZE again.

Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images from the main and window pictures switch places along with the sound.



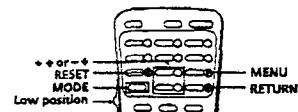
Note

- The channels being received through the AUX jack cannot be displayed as a window picture (KV-32V15/34V15C only).

Adjusting the picture (VIDEO)



When watching TV programs, you can adjust the quality of the picture to suit your taste. You can adjust the picture of video input(s) as well. These settings are stored separately from those for the TV picture.



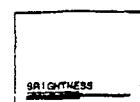
- 1 Press MENU.
- 2 Make sure the cursor (is beside VIDEO and press RETURN.



- 3 Select the item you want to adjust.
For example:
(1) To adjust brightness, press + or - to select BRIGHT and,



- (2) press RETURN.



4 Adjust the selected item:

(1) Press + or - to adjust the item and,



(2) press RETURN.

The new setting appears in the VIDEO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

Description of adjustable items

| Item | Press + to | Press - to |
|---------|--|---|
| PICTURE | Increase picture contrast and give vivid color | Decrease picture contrast and give soft color |
| HUE | Make skin tones become greenish | Make skin tones become purplish |
| COLOR | Increase color intensity | Decrease color intensity |
| BRIGHT | Brighten the picture | Darken the picture |
| SHARP | Sharpen the picture | Soften the picture |

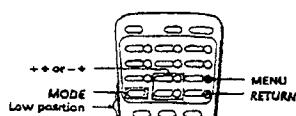
To restore the factory settings

Press RESET while the VIDEO menu is displayed.

All the settings except for PICTURE are restored to the factory settings.

Adjusting screen brightness automatically (LUMISPONDER)

The LUMISPONDER feature adjusts the brightness of the screen automatically according to the ambient brightness. The LUMISPONDER function automatically adjusts the level set by the user in the VIDEO menu to the standard.



1 Press MENU.

2 Press + or - to select VIDEO and press RETURN.

3 Press + or - to select LUMISPONDER and press RETURN.



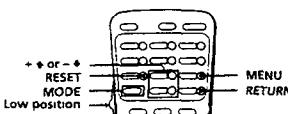
4 Press + or - to select ON or OFF and press RETURN.



Adjusting the sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste.

You can adjust the sound of video input(s) as well. These settings are stored separately from those for the TV sound.



1 Press MENU.

2 Press + or - to select AUDIO and press RETURN.



3 Select the item you want to adjust.

For example:

(1) To adjust bass, press + or - to select BASS and,

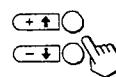


(2) press RETURN.



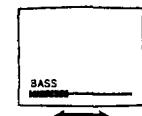
4 Adjust the selected item:

(1) Press + or - to adjust the item and,



(2) press RETURN.

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4 above.

Description of adjustable items

| Item | Press + to | Press - to |
|---------|--------------------------------------|-------------------------------------|
| TREBLE | Increase the treble response | Decrease the treble response |
| BASS | Increase the bass response | Decrease the bass response |
| BALANCE | Emphasize the right speaker's volume | Emphasize the left speaker's volume |

To restore the factory settings

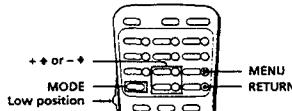
Press RESET while the AUDIO menu is displayed.

Note

- When SPEAKER (page 20) is OFF and AUDIO OUT (page 20) is FIXED condition, the sound is set to mid-level and it cannot be adjusted.

Listening to surround sound (SURROUND)

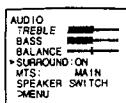
SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.



- 1 Press MENU.
- 2 Press + or - to select AUDIO and press RETURN.
- 3 Press + or - to select SURROUND and press RETURN.

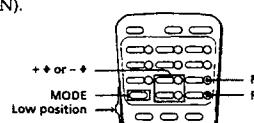


- 4 Press + or - to select ON and press RETURN.

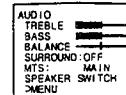


Selecting stereo or bilingual programs (MTS)

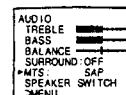
The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) at your choice. The initial setting is stereo sound (MAIN).



- 1 Press MENU.
- 2 Press + or - to select AUDIO and press RETURN.
- 3 Press + or - to select MTS and press RETURN.



- 4 Press + or - to select MAIN, SAP, or MONO and press RETURN.



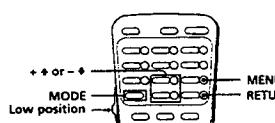
| Choose | To |
|--------|---|
| MAIN | Listen to stereo sound. The STEREO indicator on the TV lights up while a stereo broadcast is received. |
| SAP | Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected. |
| MONO | Reduce noise during stereo broadcasts. |

Note

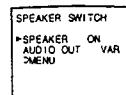
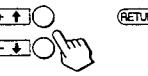
- Stereo and SAP sounds are subject to program sources.

Setting the speaker switch (SPEAKER)

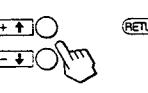
You may switch off the TV speakers when, for example, you want to listen to the sound through a stereo system.



- 1 Press MENU.
- 2 Press + or - to select AUDIO and press RETURN.
- 3 Press + or - to select SPEAKER SWITCH and press RETURN.
- 4 Make sure the cursor (►) is beside SPEAKER and press RETURN.

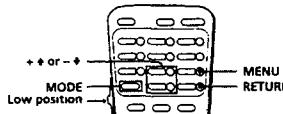


- 5 Press + or - to select ON or OFF and press RETURN.

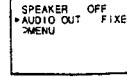
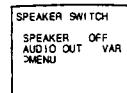


Setting audio out (AUDIO OUT)

You can select audio out to variable or fixed when SPEAKER is set to OFF. Audio out is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or - to select AUDIO and press RETURN.
- 3 Press + or - to select SPEAKER SWITCH and press RETURN.
- 4 Press + or - to select AUDIO OUT and press RETURN.
- 5 Press + or - to select VAR or FIXED and press RETURN.



VAR: Sound output varied according to the TV settings. You can adjust the volume, bass, treble and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble and balance are also fixed to the factory settings.

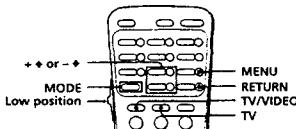
Customizing the channel number buttons (CH CAPTION/GUIDE)

For cable box control (Cable Mouse) users

Make the setting of Cable Mouse before customizing the channel number buttons.

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

Setting captions to favorite channels



1 Press TV/VIDEO or TV to select TV mode.

2 Press MENU.

3 Press + or - to select SET UP and press RETURN.

4 Press + or - to select CH CAPTION/GUIDE and press RETURN.



5 Press RETURN again.



6 Press + or - to select a channel guide number button and press RETURN.

Numbers 0-9 and DISPLAY and ENTER are available for use as a customized channel number. Each time you press + or -, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



7 Press + or - to select the channel that you want to caption and press RETURN.

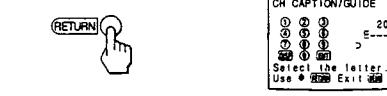


8 Enter the letters (up to four) to caption the channel:

- (1) Press + or - to select the first letter. Each time you press + or -, the letter changes as shown below and, 0---1---...---9---A---B---...---Z---&---/---(blank space)



(2) Press RETURN.



(3) Repeat steps (1) and (2) to select the remaining letters and press RETURN.



(continued)

9 Repeat step 5 to 7 to caption other channels.

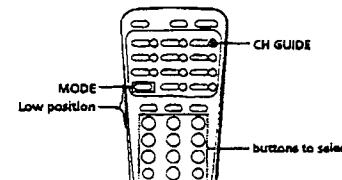
To erase a caption

Press RESET after step 5.

Notes

- The position number you already selected appears in yellow.
- If the CH CAPTION/GUIDE menu appears in black, the TV is set to a video input and you cannot select CH CAPTION/GUIDE.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption/guide feature is not available for the AUX input (KV-32V15/34V15C only)

Selecting a captioned channel



1 Press CH GUIDE

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



2 Press a channel number button, the DISP or ENT button to select the channel you want.

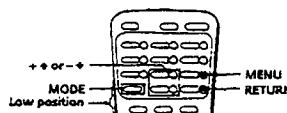
To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.

Setting video labels (VIDEO LABEL)

(VIDEO LABEL)



This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



1 Press MENU.

2 Press + or - to select SET UP and press RETURN.

3 Press + or - to select VIDEO LABEL and press RETURN.



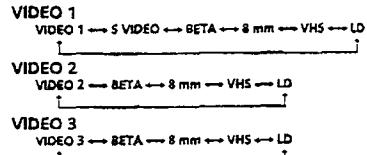
4 Press + or - to select the input mode you want to label and press RETURN.



5 Press + or - to select the label and press RETURN.



Each time you press + or -, the label changes as shown below.



6 Repeat steps 4 and 5 to label other input modes.

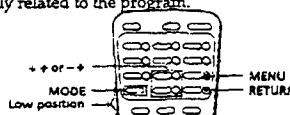
Note

- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Displaying Caption Vision (Caption Vision)

Some source programs are provided with Caption Vision (Closed Caption). To display Caption Vision, select either CC1, CC2, TEXT1, or TEXT2 from the menu.

CC1 or CC2 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1 or TEXT2 shows you text, that is information presented using half to full of the screen. It is not usually related to the program.



1 Press MENU.

2 Press + or - to select CAPTION VISION and press RETURN.



3 Press + or - to select the caption type and press RETURN.



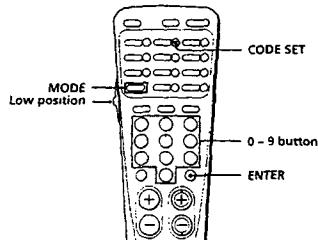
Note

- Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Caption Vision.

Operating video equipment

You can operate Sony or non-Sony video equipment that has an infrared remote sensor with the supplied remote commander. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



While pressing CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart in the right column). For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



VCR Manufacturer Code numbers

| Manufacturer | Code number |
|------------------|----------------|
| SONY | 01, 02, 03 |
| CANON | 05 |
| EMERSON | 22, 30, 33 |
| FISHER | 10, 11, 12, 15 |
| FUNAI | 29 |
| GENERAL ELECTRIC | 05, 08 |
| GOLDSTAR | 25 |
| HITACHI | 07, 08, 36 |
| JVC | 16, 35 |
| MAGNAVOX | 05, 06, 09 |
| MITSUBISHI | 18, 19, 26, 27 |
| MULTITECH | 29 |
| NEC | 16, 23, 31 |
| PANASONIC | 05, 06 |
| PHILCO | 05, 06 |
| PHILIPS | 05, 06, 09 |
| QUASAR | 05, 06 |
| RCA | 07, 08 |
| SAMSUNG | 24, 32 |
| SANYO | 11, 15 |
| SCOTT | 21 |
| SHARP | 13, 14 |
| SHINTOM | 34 |
| SYLVANIA | 05, 06, 09 |
| SYMPHONIC | 29 |
| TEKNIKA | 28, 29 |
| TOSHIBA | 20, 21 |
| TOTE VISION | 25 |
| ZENITH | 17 |

MDP manufacturer code numbers

| Manufacturer | Code number |
|--------------|-------------|
| SONY | 04 |
| KENWOOD | 58 |
| MAGNAVOX | 52 |
| MARANZ | 54 |
| MITSUBISHI | 51 |
| PANASONIC | 55 |
| PHILIPS | 52 |
| PIONEER | 51 |
| RCA | 51 |
| SANYO | 57 |
| SHARP | 56 |
| YAMAHA | 53 |

Notes

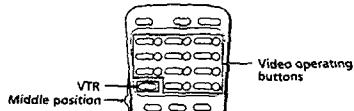
- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

| | |
|--------------------|--|
| Beta, ED Beta VCRs | 01 |
| 8 mm VCR | 02 |
| VHS VCR | 03 (preset code for this remote commander) |

Caution

When you remove a battery from the remote commander, the code may revert to 03. Reset the code each time you replace the battery, if necessary.

Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment.

| Operating a VCR | Buttons on the remote commander |
|--|---------------------------------|
| To turn on or off | Press POWER |
| To change channels | Press CH +/- |
| To record | Press • and REC simultaneously |
| To play | Press ▶ |
| To stop | Press ■ |
| To fast forward | Press ▶▶ |
| To rewind the tape | Press ◀◀ |
| To pause | Press II |
| To search the picture forward and backward | Press ▶▶ or ◀◀ during playback |

| Operating the laser-disc player | Buttons on the remote commander |
|--|---|
| To play | Press ▶ |
| To stop | Press ■ |
| To pause | Press II |
| To search the picture forward and backward | Keep pressing ▶▶ or ◀◀ during playback To resume normal playback, press again. |
| To search the chapter | Press CH +/- |

Note

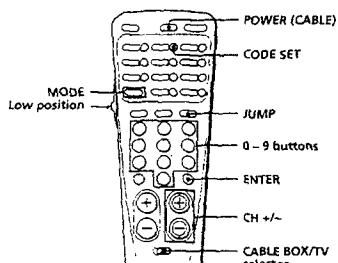
- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating a cable box

For cable box control (Cable Mouse) users:

Set the CABLE BOX/TV selector to TV and disregard the instruction below.

Follow these instructions to set the manufacturer's code which will enable you to operate a connected cable box with the pre-programmed remote commander. For example, you can set the remote commander to operate a connected Zenith cable box.



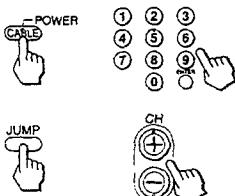
1 Set the CABLE BOX/TV selector to CABLE BOX.



2 While pressing CODE SET, press 6 and 8 (Zenith's code number —see chart on the next page) and ENTER.



3 Use POWER(CABLE) and the TV control buttons (0 - 9, ENTER, JUMP and CH +/-) to operate the cable box.



To operate the TV

Set the CABLE BOX/TV selector to TV. Then use the TV control buttons to control the TV.

For more details on operating the cable box
Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)

| Manufacturer | Code number |
|--------------------|----------------------------|
| JERROLD | 60, 61, 62, 63, 64, 65, 73 |
| PIONEER | 69, 70 |
| SCIENTIFIC ATLANTA | 66, 67 |
| TOCOM | 71, 72 |
| ZENITH | 68 |

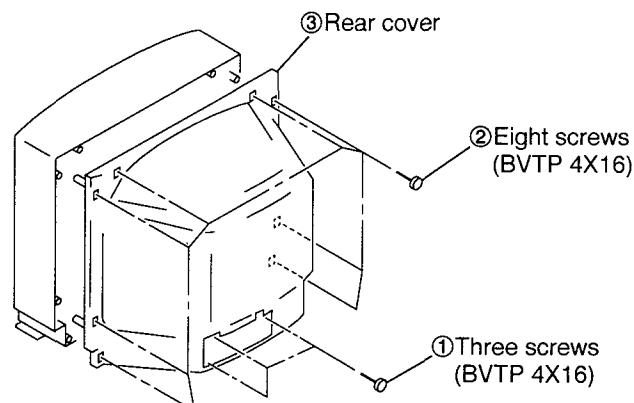
Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

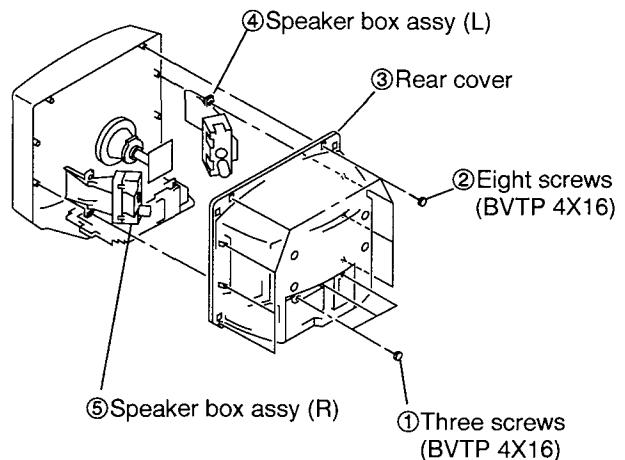
(continued)

SECTION 2 DISASSEMBLY

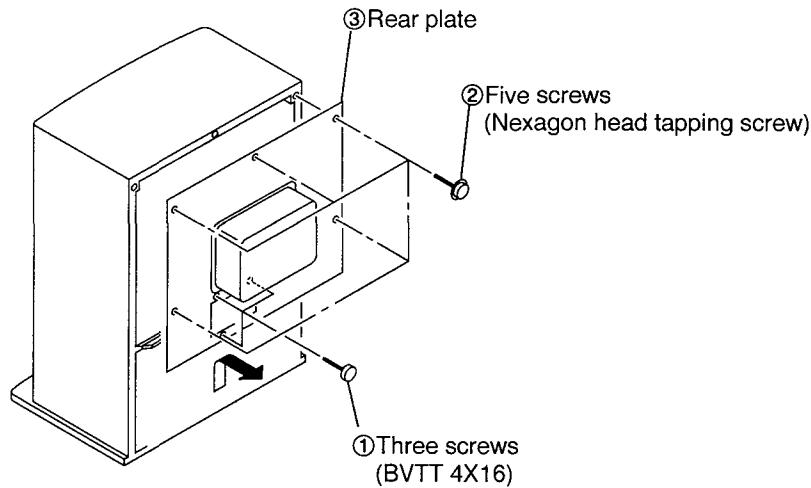
2-1-1. REAR COVER REMOVAL (KV-32S12/32S16)



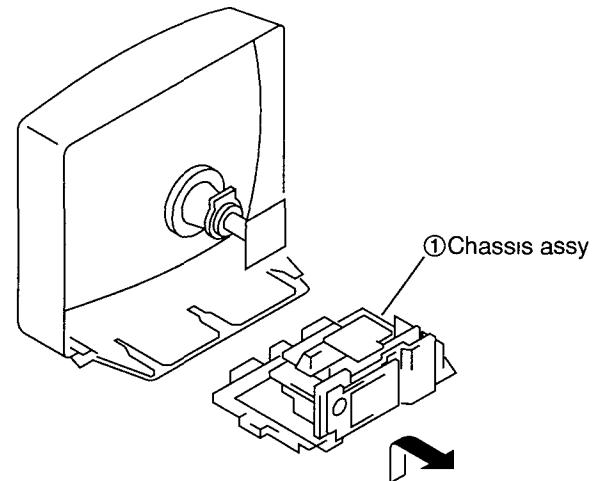
2-1-2. REAR COVER AND SPEAKER BOX ASSY REMOVAL (KV-32V16)



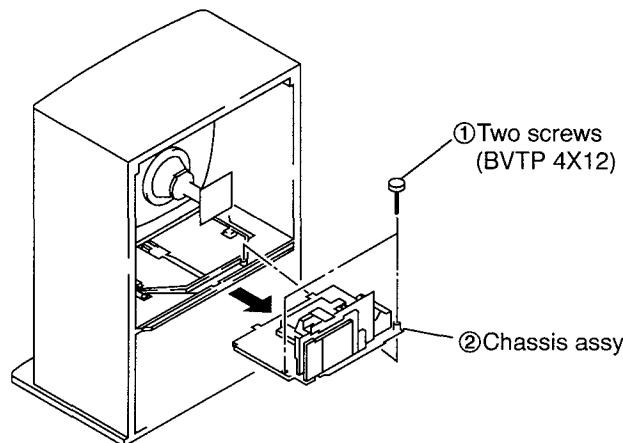
2-1-3. REAR PLATE REMOVAL (KV-32TW67/32TW68)



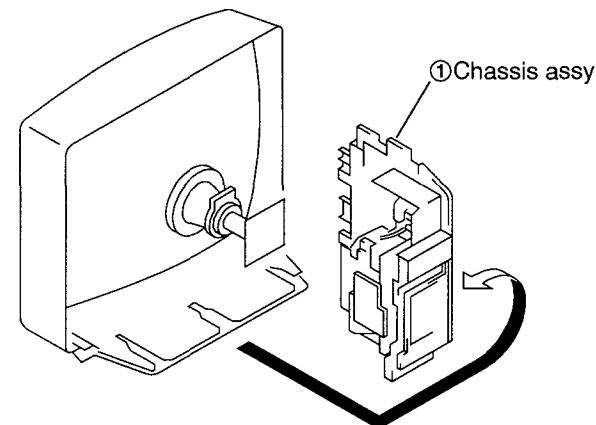
2-2-1. CHASSIS ASSY REMOVAL (KV-32S12/32S16/32V16)



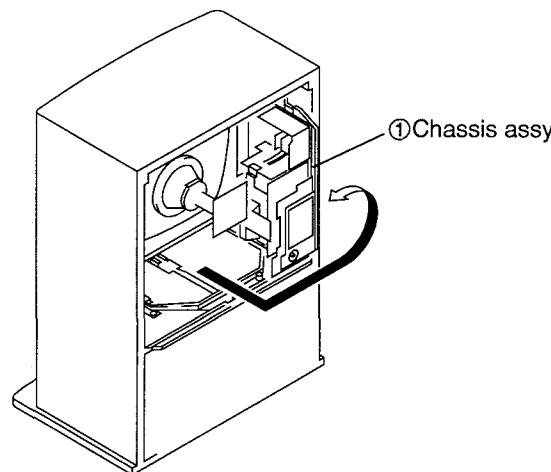
**2-2-2. CHASSIS ASSY REMOVAL
(KV-32TW67/32TW68)**



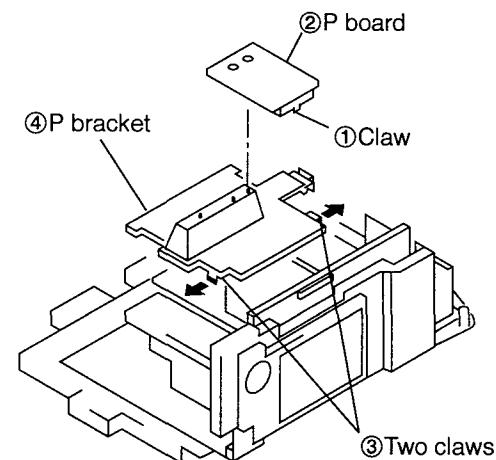
**2-3-1. SERVICE POSITION
(KV-32S12/32S16/32V16)**



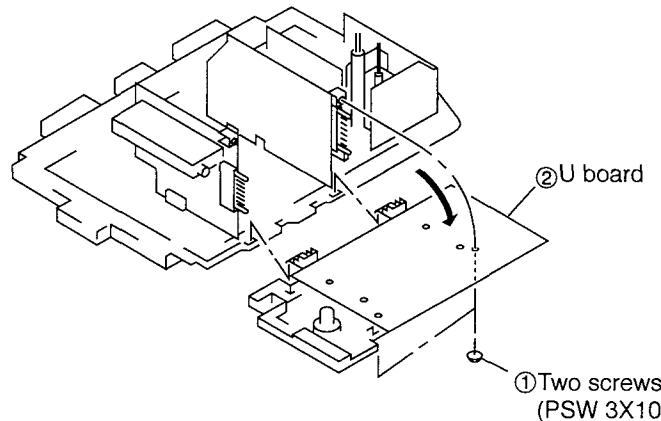
**2-3-2. SERVICE POSITION
(KV-32TW67/32TW68)**



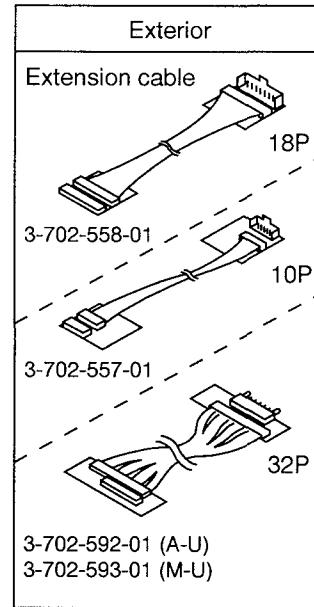
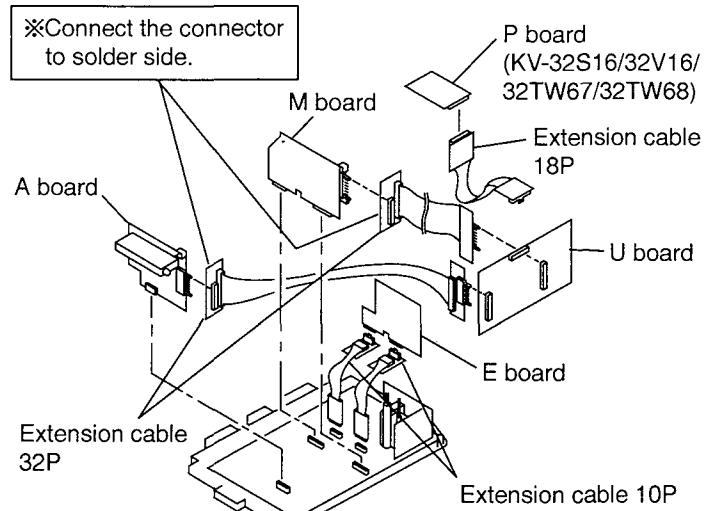
**2-4. P BOARD REMOVAL
(KV-32S16 U model/32V16/32TW67/32TW68)**



2-5. U BOARD REMOVAL



2-6. EXTENSION CABLE

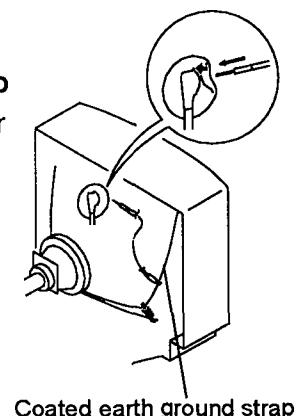


2-7 PICTURE TUBE REMOVAL

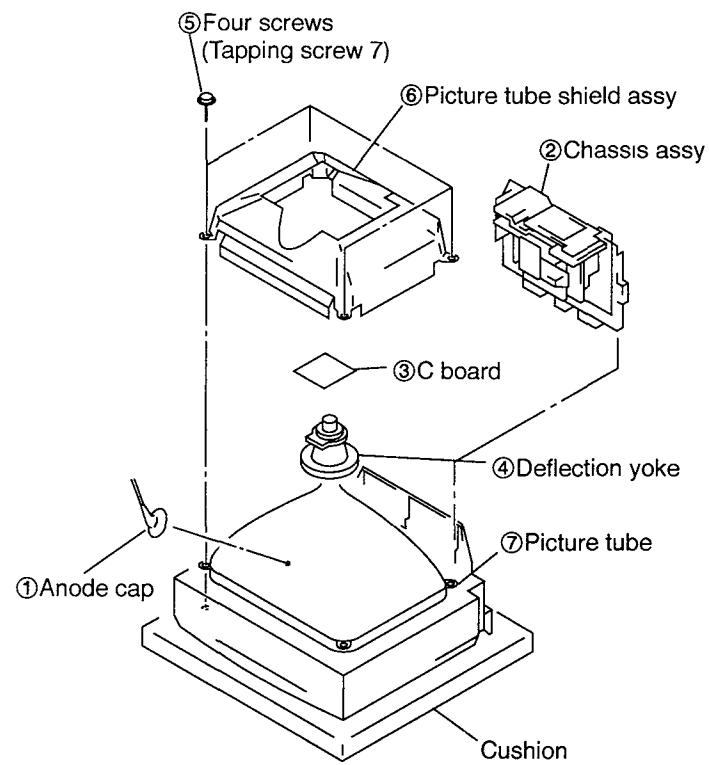
WARNING : Before removing anode cap

H. V. remains in the CRT even after the power is disconnected.

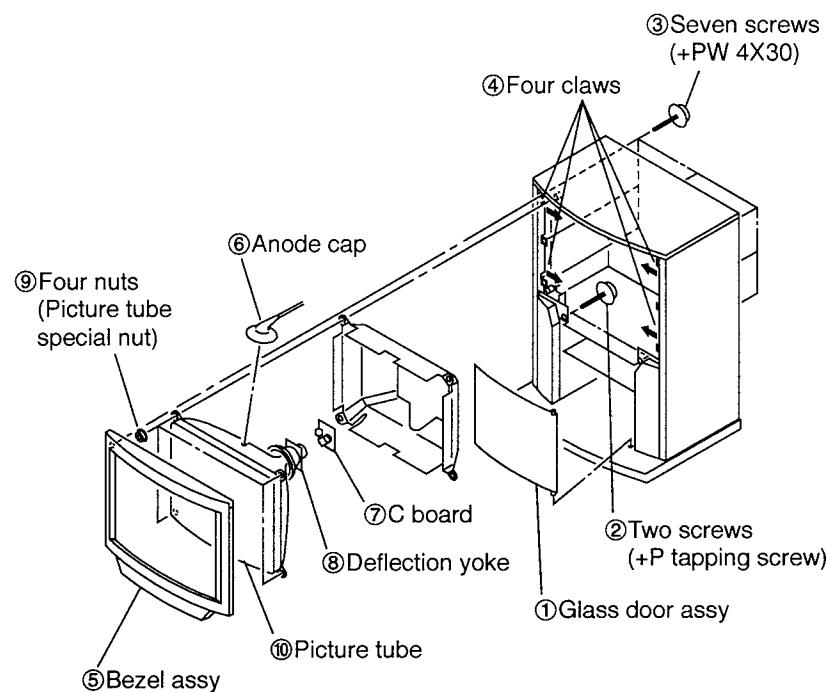
To avoid electrical shock, before attempting to remove the anode cap, discharge CRT : Short between anode and CRT coated earth ground strap.



(1) KV-32S12/32S16/32V16



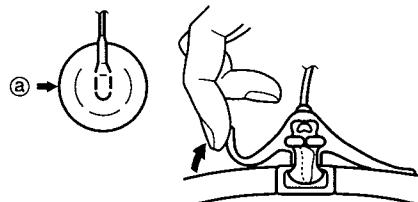
(2) KV-32TW67/32TW68



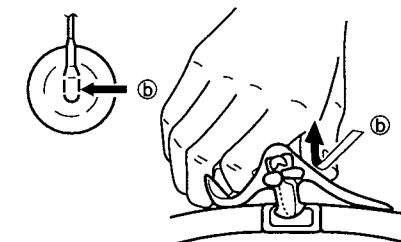
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis. CRT shield or carbon painted on the CRT, after removing the anode.

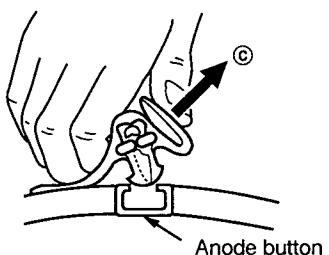
• REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ④.



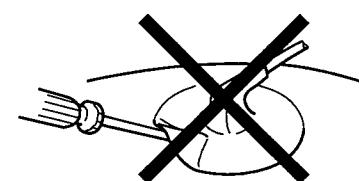
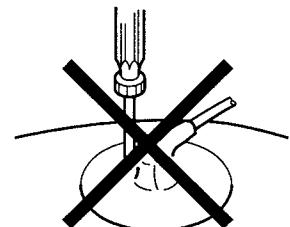
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SAFETY RELATED ADJUSTMENTS

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|--|---|--|--|
| D BOARD <div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> *RESISTOR CONFIRMATION METHOD (HV HOLD-DOWN CONFIRMATION) AND READJUSTMENTS </div> <p>The following adjustments should always be performed when replacing the following components (*marked with <input checked="" type="checkbox"/> on the schematic diagram).</p> | | <input checked="" type="checkbox"/> marked parts IC601, PM501, D504, C598, R338, R509, R524, R632, R635, R645, T501 | * <input checked="" type="checkbox"/> R524 | |
| 1. Preparation before confirmation 1) Turn the POWER switch ON, and receive *signal and set the *PICTURE and BRIGHTNESS controls to adjustment. 2) Confirm that the voltage of the check terminal of *TP is more than *voltage when the set is operating normally with *Power supply. | *Entirely white *Digital multimeter | *TP85 (H. PROT) | *PICTURE BRIGHTNESS } maximum | *122.3V DC 32 inch only *120 ± 2.0 VAC (Power Supply) D BOARD - CONDUCTOR SIDE - |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|--|---------------------|---|
| <p>2. Hold-down operation confirmation (HV)</p> <ol style="list-style-type: none"> 1) Connect the *currentmeter between the *pin of *FBT and the land of it with connect polarity. 2) Receive *Signal and adjust the *ABL current to follows with the PICTURE and the BRIGHTNESS controls. 3) Connect the Digital Voltmeter and *DC power Supply via *DIODE to TP. 4) Increase the DC power voltage gradually until the Picture just blanks out. 5) Read the digital voltmeter indication. 6) Turn DC power Source off immediately. <p><u>*STANDARD</u></p> | <p>*Currentmeter</p> <p>*Entirely white</p> <p>*DC Power Supply</p> | <p>*FBT (T501) Pin ⑩</p> <p>*Via 1T40 to TP-85</p> | | <p>*1760 ± 50µA</p> <p>*Less than 143.5 VDC</p> |
| <p>7) Receive *Signal and adjust the *ABL current to follows, with the PICTURE and the BRIGHTNESS controls.</p> <p>8) Repeat steps from (3) to (7).</p> <p><u>*STANDARD</u></p> | *Dot Signal | | | <p>*160 ± 50µA</p> <p>*Less than 144.1 VDC</p> |

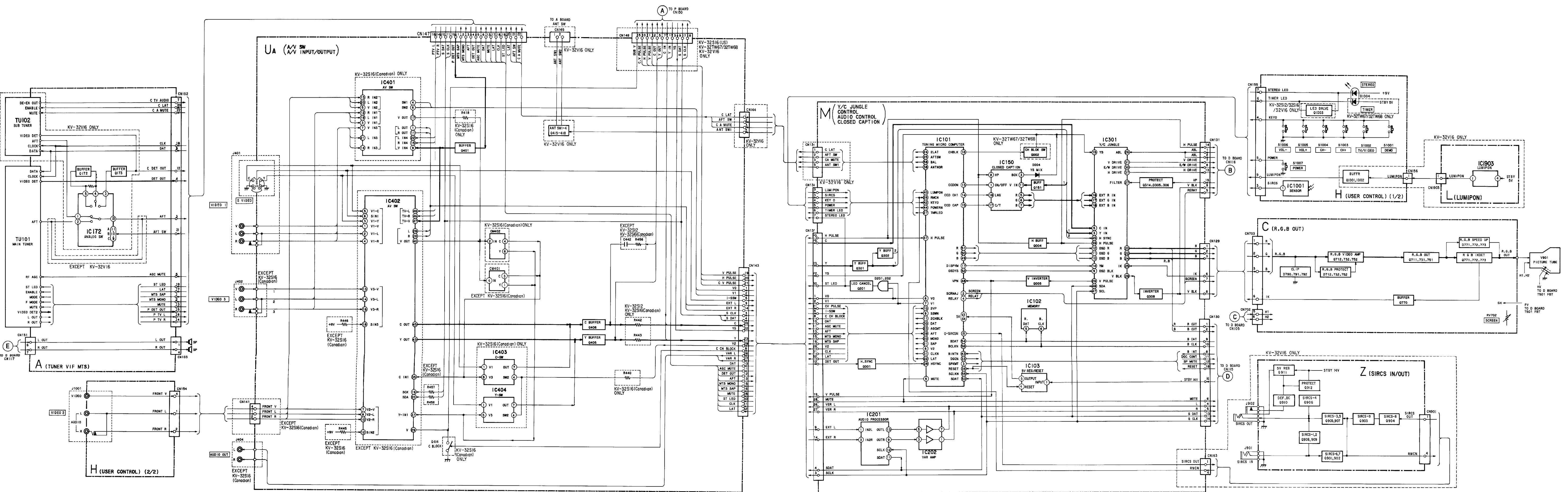
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|--|------------------------------|--|--|-----------------------------------|
| <p>3. Hold -down readjustment When step 2 is not satisfied, readjustment should be performed by altering the resistance value of *Resistor (a component marked with <input checked="" type="checkbox"/>).</p> <p>*RESISTOR CONFIRMATION METHOD (B+ HOLD-DOWN CONFIRMATION) AND READJUSTMENTS</p> <p>The following adjustments should always be performed when replacing the following components (*marked with <input checked="" type="checkbox"/> on the schematic diagram).</p> <p>1.Preparation before confirmation</p> <ol style="list-style-type: none"> 1) Remove the *resistor on the D board and connect a *variable resistor between pin① of IC601 and B+ line. 2) Supply *AC voltage to with *variable auto-transformer. | | | <input checked="" type="checkbox"/> R524 <input checked="" type="checkbox"/> R511 | |
| | * Variable auto-transformer. | * <input checked="" type="checkbox"/> marked parts PM501, R338, R511, R632, R645, R650 | *R635 *RV1 : about 4.7 kΩ - 10kΩ *120 ± 2.0 VAC | |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|----------------------------------|----------------------|---------------------|-----------------------------------|
| 2. Hold-down operation voltage (B+) | | | | |
| 1) Connect the *currentmeter between the *pin of FBT and the land of it with correct polarity. | *Currentmeter *Entirely white | *FBT (T501) Pin ⑩ | | * $1760 \pm 50\mu A$ |
| 2) Receive *Signal and adjust the *ABL current to follows with the PICTURE and the BRIGHTNESS controls. | | | | |
| 3) Connect the *Digital Multimeter to *TP. | *Digital Multimeter | *TP91 (+B) | | |
| 4) Increase the DC power voltage gradually by adjusting the resister of RV1 until the Picture just blanks out. | | | | |
| 5) Read the digital voltmeter indication. | | | | |
| 6) Turn DC power Source off immediately. | | | | |
| <u>*STANDARD</u> | | | | *Less than 140.0 VDC |
| 7) Receive *Signal and adjust the *ABL current to follows, with the PICTURE and the BRIGHTNESS controls. | *Dot signal | | | * $160 \pm 50\mu A$ |
| 8) Repeat steps from 4) to 6). | | | | *Less than 143.5 VDC |
| <u>*STANDARD</u> | | | | |
| 3. Hold-down readjustment | | | | |
| When step 1 is not satisfied, readjustment should be performed by altering the resistance value of *resistor (a component marked with █). | | * █R511 | | |

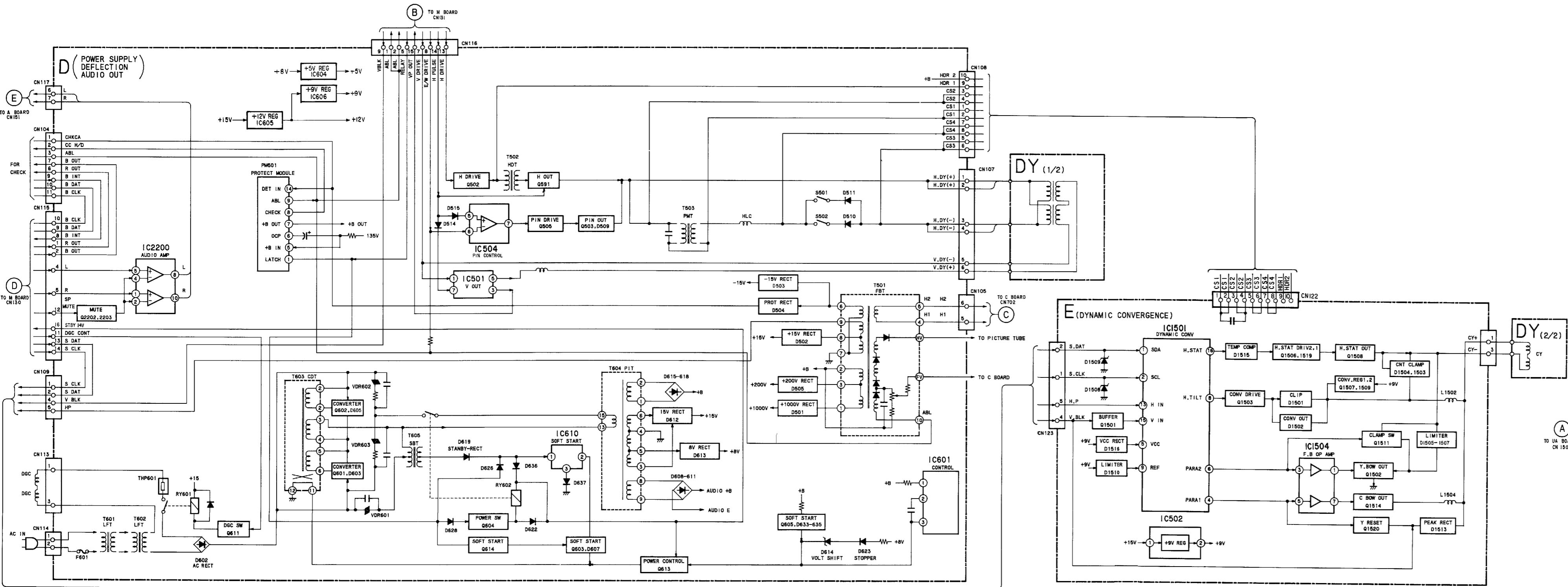
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|--|---|---|--|
| <p>B+ VOLTAGE CONFIRMATION</p> <p>The following adjustments should always be performed when replacing the following *components.</p> <p>1) Supply *Voltage AC to with *variable auto-transformer.</p> <p>2) Input an entirely *signal.</p> <p>3) Set the PICTURE control and the BRIGHTNESS control to adjustment.</p> <p>4) Confirm the voltage of *TP is less than *Voltage DC.</p> <p>5) If step 4) is not satisfied, replace the *components repeat above steps.</p> | <p>*Variable auto-transformer *Monoscope</p> | <p>*IC601, R635 *TP91 (+B)</p> | <p>*PICTURE, BRIGHTNESS initial reset *IC602, R635</p> | <p>*120 $^{+2.0}_{-0}$ V AC *Less than 137.0 VDC</p> |

SECTION 4 DIAGRAMS

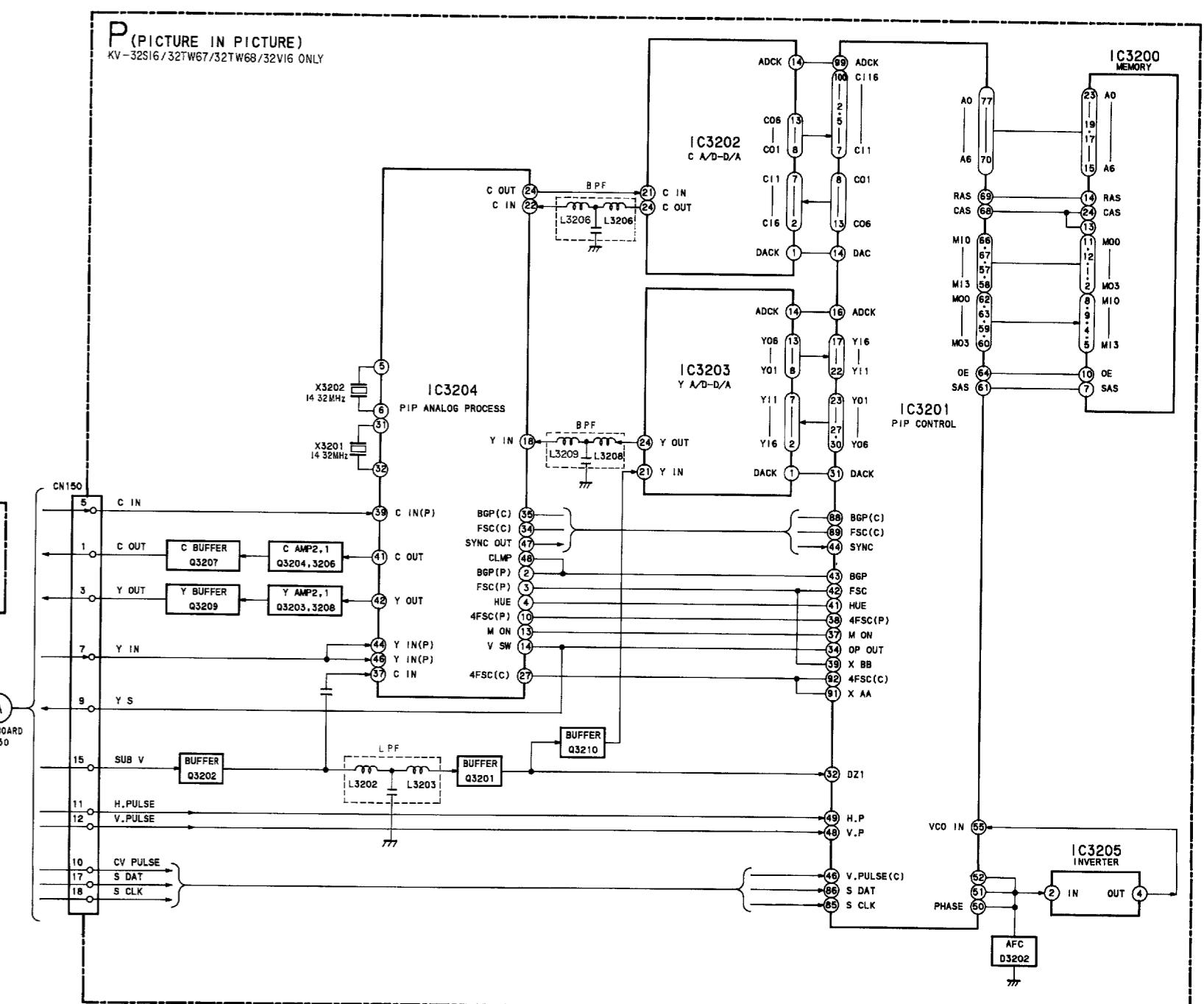
4-1. BLOCK DIAGRAMS (1)



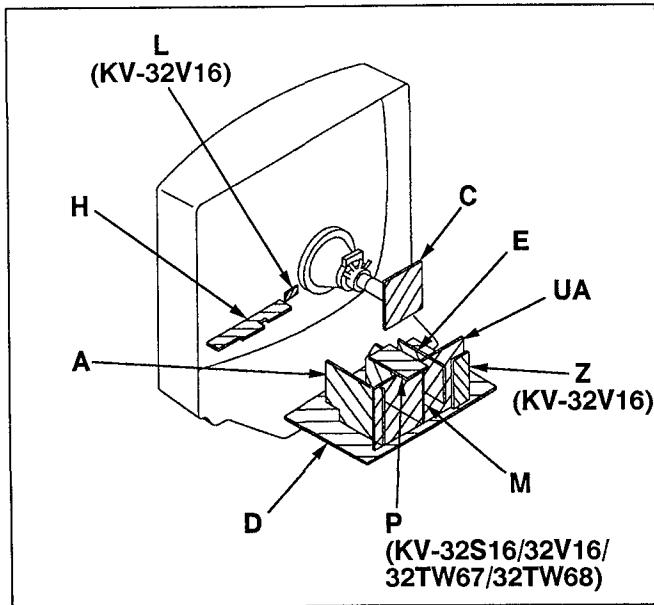
4-2. BLOCK DIAGRAMS (2)



— 31 —



4-3. CIRCUIT BOARDS LOCATION



4-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50V or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
 $k\Omega = 1000 \Omega$, $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : $1/4\text{W}$

- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R511 and R524 adjustment on Page 20, 25.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (| Adjustment (|
|--|--------------------|
| PM501, R511, R632, R645, R650 R338 | D BOARD M BOARD |
| IC601, PM501, D504, C598, R509, R524, R632, R635, R645, T501 R338 | D BOARD M BOARD |

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a $10M\ \Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.

- All voltages are in V.

* : Measurement impossibility.

- : B + line

- : B - line

(Actual measured value may be different)

- : signal path.(RF)

- Circle numbers are waveform references.

Reference information

| | |
|-----------|-------------------------------|
| RESISTOR | : RN METAL FILM |
| | : RC SOLID |
| | : FPRD NONFLAMMABLE CARBON |
| | : FUSE NONFLAMMABLE FUSIBLE |
| | : RW NONFLAMMABLE WIREWOUND |
| | : RS NONFLAMMABLE METAL OXIDE |
| | : RB NONFLAMMABLE CEMENT |
| | : ADJUSTMENT RESISTOR |
| COIL | : LF-8L MICRO INDUCTOR |
| CAPACITOR | : TA TANTALUM |
| | : PS STYROL |
| | : PP POLYPROPYLENE |
| | : PT MYLAR |
| | : MPS METALIZED POLYESTER |
| | : MPP METALIZED POLYPROPYLENE |
| | : ALB BIPOLAR |
| | : ALT HIGH TEMPERATURE |
| | : ALR HIGH RIPPLE |

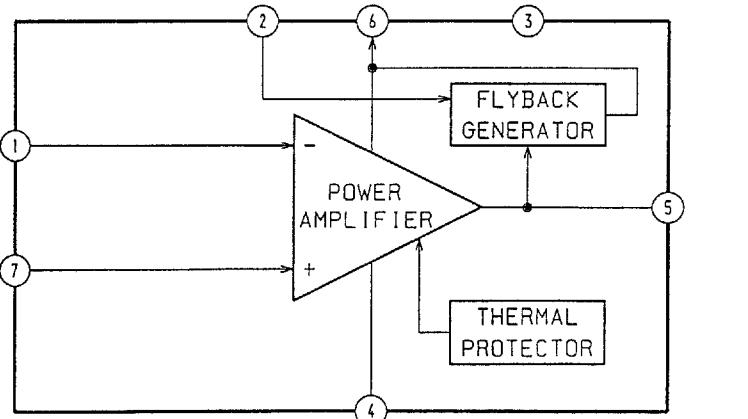
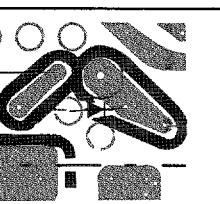
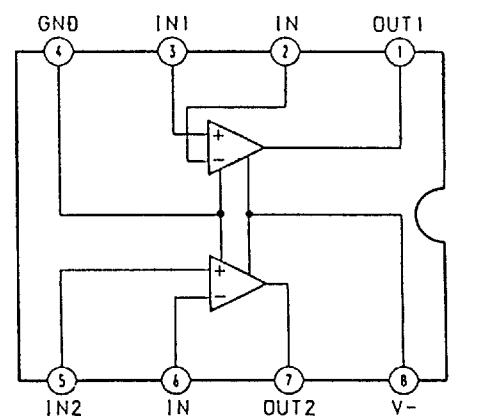
Note: The symbol display is on the component side.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme maqué.

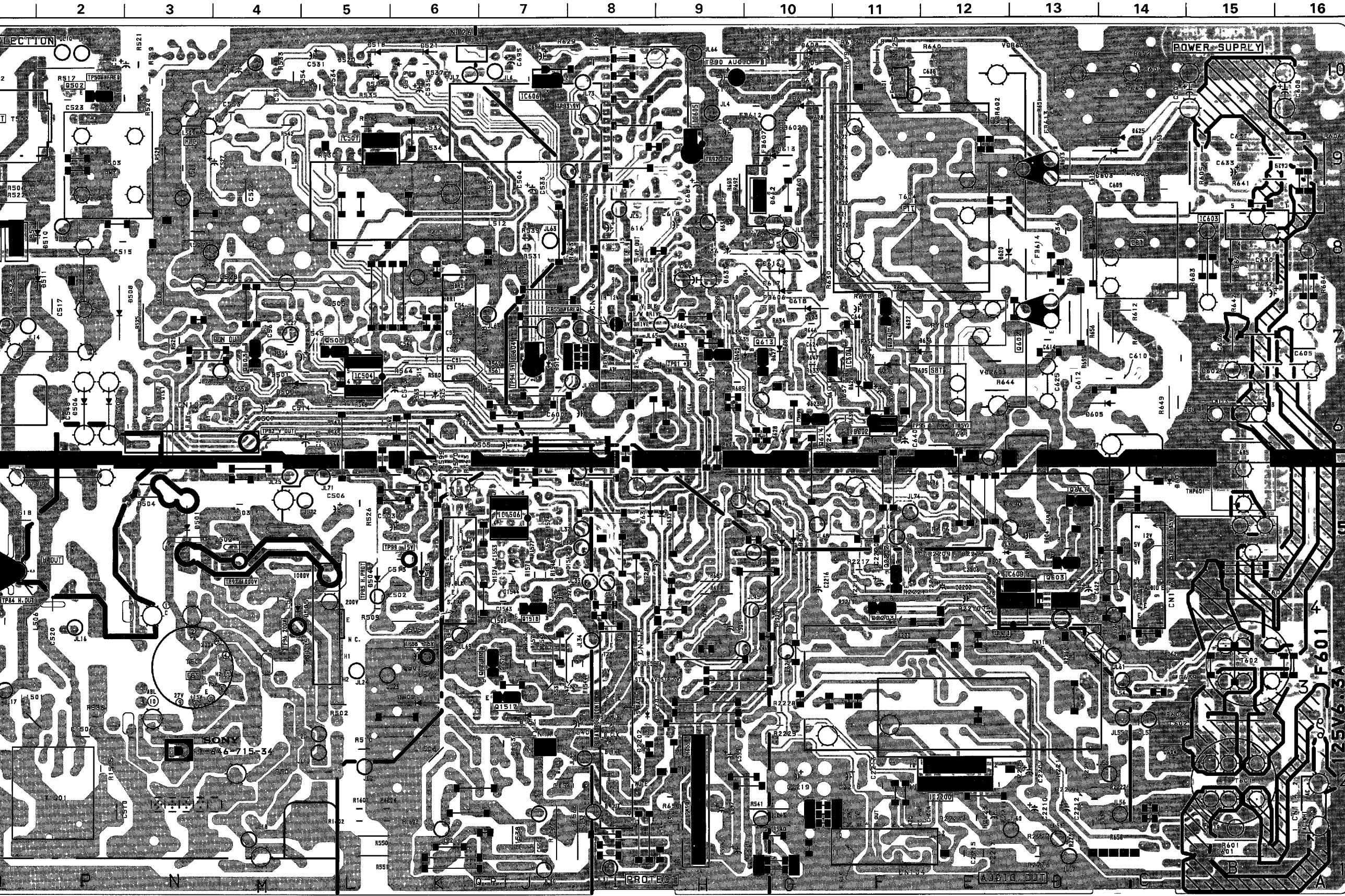
D BOARD IC501 TDA8172**D BOARD IC504 μPC393C****NOTE:**

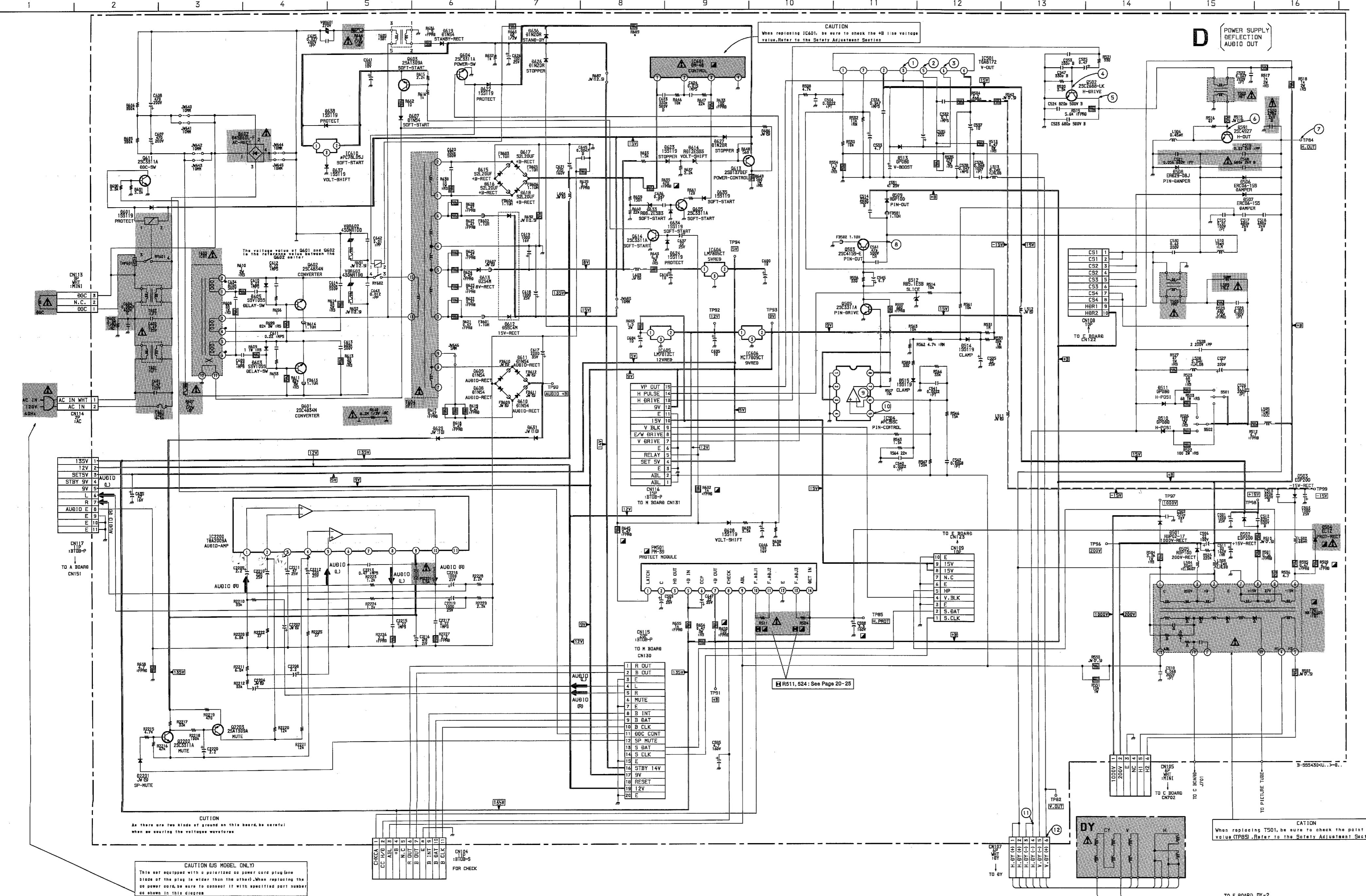
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

| IC | |
|-------------------|--------|
| IC501 | B - 5 |
| IC504 | D - 5 |
| IC601 | D - 10 |
| IC604 | D - 7 |
| IC605 | B - 9 |
| IC606 | A - 7 |
| IC610 | G - 12 |
| IC2200 | I - 12 |
| TRANSISTOR | |
| Q502 | A - 2 |
| Q503 | D - 4 |
| Q505 | D - 5 |
| D591 | G - 1 |
| Q601 | B - 13 |
| Q602 | D - 13 |
| Q603 | G - 13 |
| Q604 | D - 11 |
| Q605 | D - 9 |
| Q611 | F - 13 |
| Q613 | D - 10 |
| Q614 | E - 10 |
| Q2202 | G - 11 |
| Q2203 | G - 11 |
| DIODE | |
| D501 | F - 3 |
| D502 | H - 6 |
| D503 | G - 6 |
| D604 | G - 5 |
| D505 | G - 4 |
| D506 | E - 2 |
| D507 | E - 2 |
| D508 | D - 2 |
| D509 | E - 4 |
| D510 | C - 1 |
| D511 | C - 1 |
| D512 | D - 7 |
| D513 | A - 5 |
| D514 | E - 6 |
| D515 | D - 6 |
| D601 | F - 14 |
| D602 | D - 15 |
| D603 | B - 14 |
| D605 | E - 13 |
| D607 | G - 12 |
| D608 | A - 10 |
| D609 | A - 10 |
| D610 | A - 10 |
| D611 | A - 10 |
| D612 | B - 10 |
| D613 | B - 10 |
| D614 | E - 10 |
| D615 | C - 10 |
| D616 | C - 10 |
| D617 | C - 10 |
| D618 | D - 10 |
| D619 | D - 11 |
| D622 | D - 11 |
| D623 | E - 10 |
| D624 | E - 10 |
| D626 | E - 11 |
| D627 | D - 10 |
| D628 | E - 10 |
| D633 | C - 9 |
| D634 | C - 9 |
| D635 | D - 9 |
| D636 | D - 11 |
| D637 | G - 13 |
| D638 | F - 12 |

D [POWER SUPPLY,
DEFLECTION,
AUDIO OUT]

- D BOARD -



D BOARD TRANSISTOR VOLTAGE LIST

| Ref | Location | B | C | E | IC501 ① |
|-------|----------|-------|-------|-------|----------|
| Q502 | B - 13 | - 1.2 | 105.1 | 0 | B - 11 ② |
| Q503 | D - 11 | 0.3 | 17.3 | 0 | ③ |
| Q505 | D - 11 | 0.1 | 2.7 | 0 | ④ |
| Q591 | B - 15 | - 0.3 | 139.7 | 0.1 | ⑤ |
| Q601 | E - 4 | 164.0 | 319.0 | 164.0 | ⑥ |
| Q602 | D - 4 | - 0.2 | 164.0 | 0 | ⑦ |
| Q603 | B - 5 | 5.9 | - 7.0 | 5.9 | IC504 ① |
| Q604 | B - 6 | 0.7 | 0 | 0.2 | F - 11 ② |
| Q605 | C - 9 | 0.2 | 15.1 | 0 | ③ |
| Q611 | C - 2 | 0 | 0 | 0 | ④ |
| Q613 | C - 9 | 15.4 | 5.0 | 16.0 | ⑤ |
| Q614 | C - 8 | 0 | 5.9 | 0 | ⑥ |
| Q2202 | I - 2 | 0.7 | 0 | 0 | ⑦ |
| Q2203 | I - 3 | 19.7 | 20.4 | 20.4 | ⑧ |

All voltages are in V

STANDARD IC VOLTAGE LIST

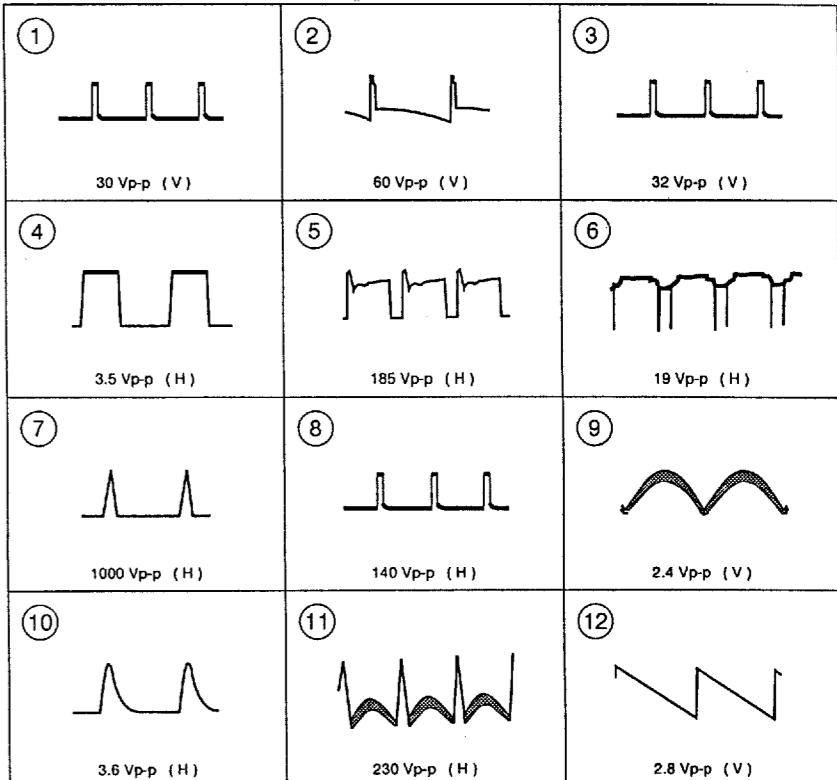
| | | | |
|----|-------|---------|-------|
| ① | 2.1 | IC610① | 16.0 |
| ② | -13.8 | B - 4 ② | 5.9 |
| ③ | -13.8 | ③ | 0.7 |
| ④ | -16.0 | | |
| ⑤ | -0.1 | IC2200① | 1.5 |
| ⑥ | 13.2 | G - 4 ② | 3.0 |
| ⑦ | 2.1 | ③ | 12.0 |
| | | ④ | 3.0 |
| ④① | 0 | ⑤ | 1.5 |
| ④② | 0 | ⑥ | 0 |
| ③ | 15.0 | ⑦ | — |
| ④ | 0 | ⑧ | 0.2 |
| ⑤ | 2.2 | ⑨ | 21.0 |
| ⑥ | 3.6 | ⑩ | 0.2 |
| ⑦ | 0.1 | ⑪ | — |
| ⑧ | 15.0 | | |
| | | PM501① | 4.1 |
| ①① | 138.1 | H - 9 ② | 0.1 |
| ②② | 2.5 | ③ | — |
| ③③ | 15.2 | ④ | — |
| ④④ | 0 | ⑤ | 139.1 |
| | | ⑥ | 137.4 |
| ④① | 8.0 | ⑦ | 138.1 |
| ④② | 5.0 | ⑧ | 137.4 |
| ③③ | 0 | ⑨ | 3.2 |
| | | ⑩ | 121.1 |
| ⑤① | 15.0 | ⑪ | 4.1 |
| ⑤② | 12.0 | ⑫ | 0 |
| ③③ | 0 | ⑬ | 127.0 |
| ⑥① | 12.0 | ⑭ | 132.6 |
| ⑥② | 9.0 | | |
| ③③ | 0 | | |

voltages are in V

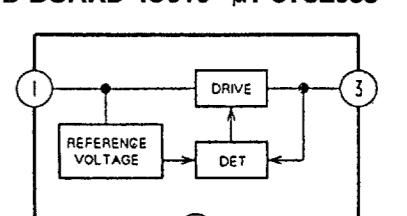
-: BLANK PIN

O:TO BE MOUNT
- :NOT MOUNT

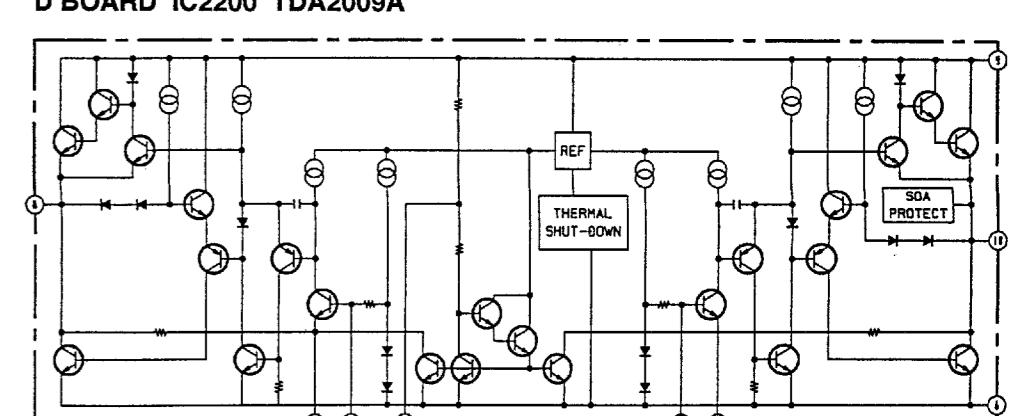
• D BOARD WAVEFORMS

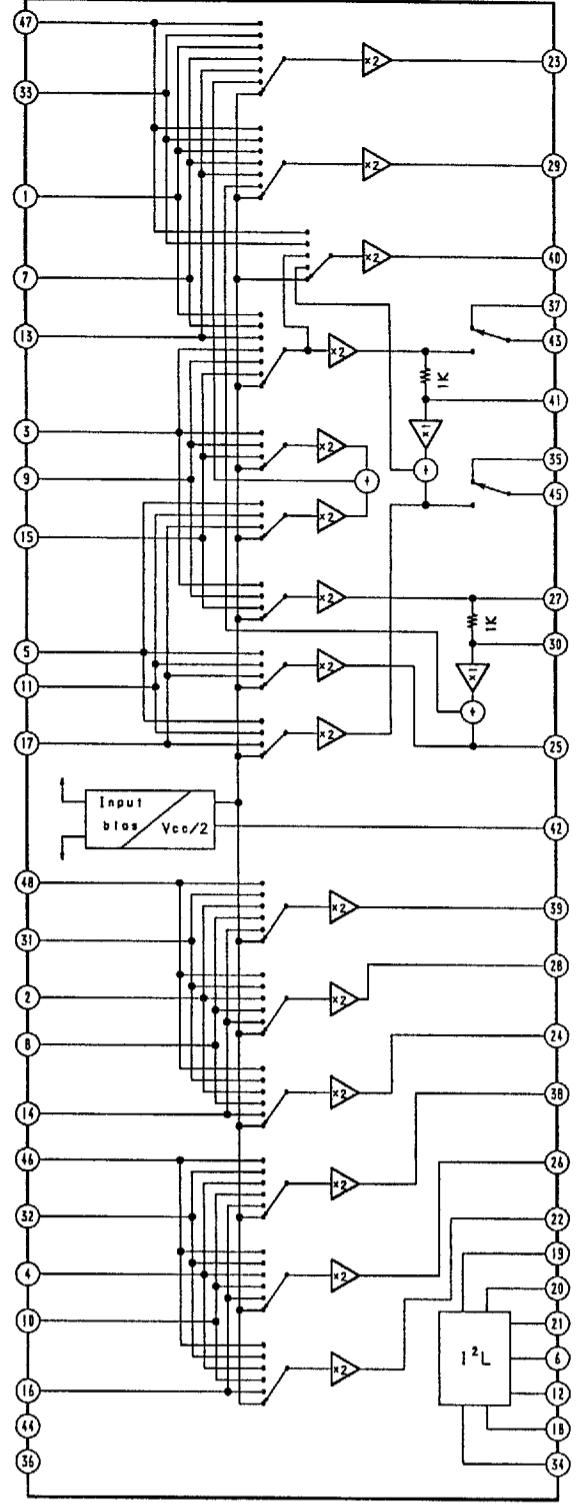


D BOARD IC610 μPC78L05J



P BOARD JC2300 TRA2002A

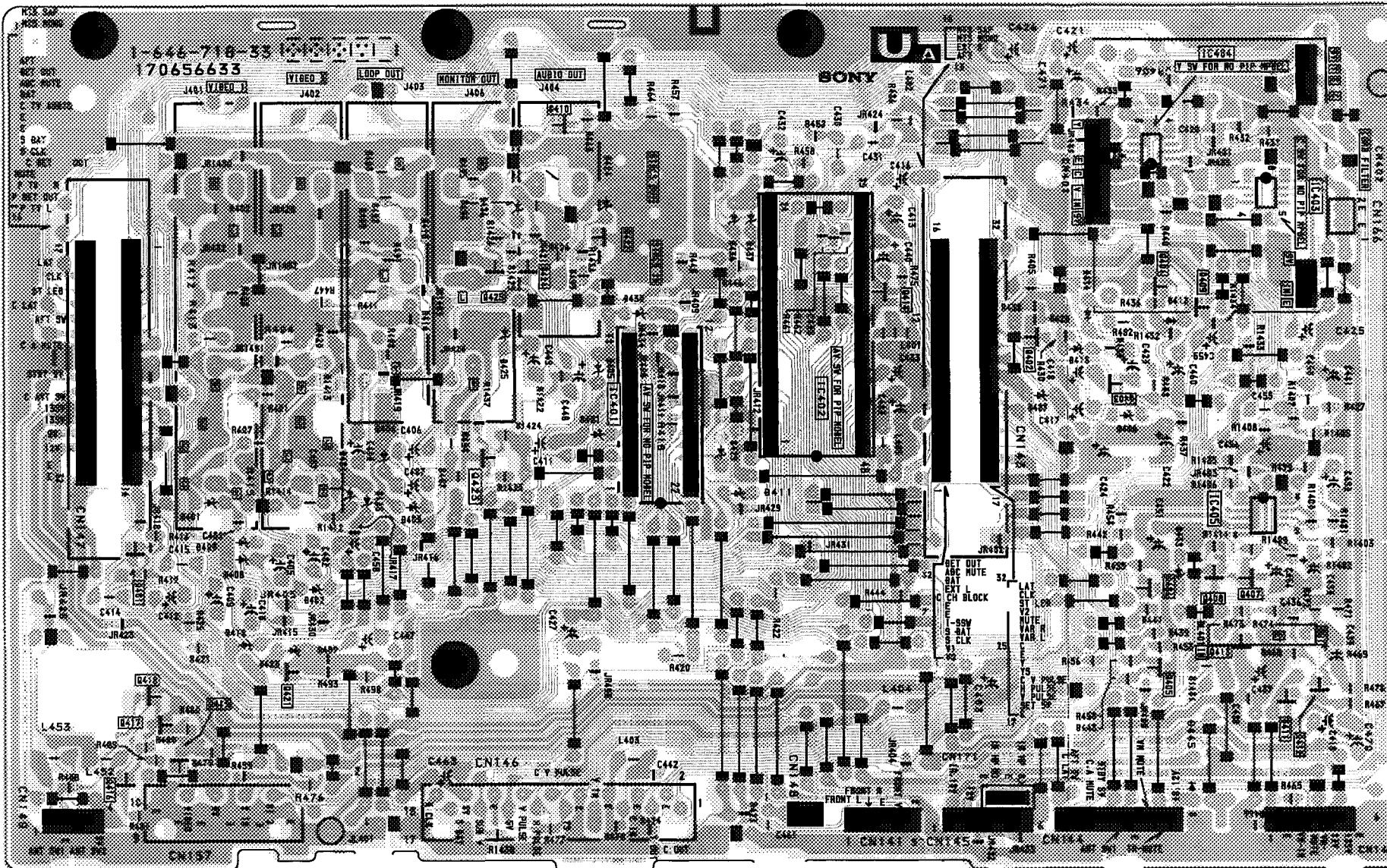


UA BOARD IC402 CXA1545AS

UA BOARD * MARK

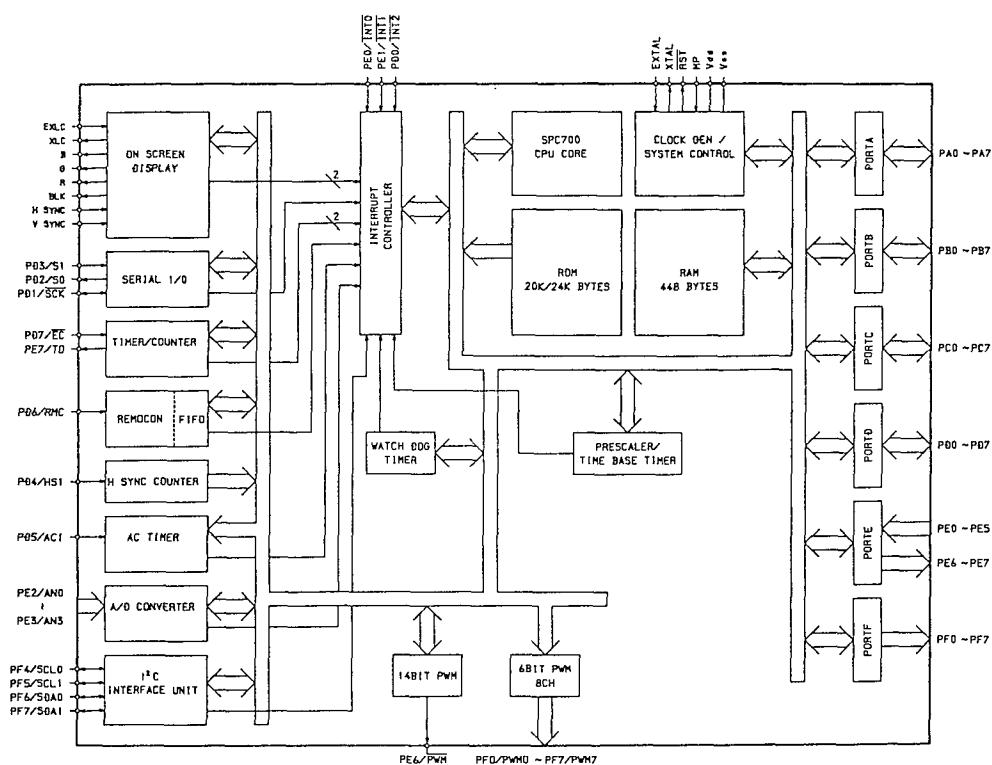
| Ref | Location | KV-32S12 | KV-32S16 (U.S) | KV-32S16 (CND) | KV-32TW67/ 32TW68 | KV-32V16 |
|------|----------|-------------|-------------------|-------------------|----------------------|-------------|
| C408 | F - 5 | 1 | 1 | - | 1 | 1 |
| C409 | F - 6 | 1 | 1 | - | 1 | 1 |
| C408 | F - 5 | 22/25V | 22/25V | - | 22/25V | 22/25V |
| C411 | D - 6 | - | - | - | - | - |
| C411 | I - 10 | 0.47 | 0.47 | - | 0.47 | 0.47 |
| C416 | I - 10 | 0.47 | 0.47 | - | 0.47 | 0.47 |
| C427 | B - 5 | JW (5.0) | JW (5.0) | - | JW (5.0) | JW (5.0) |
| C430 | F - 8 | - | - | - | - | 1 |
| C432 | G - 7 | - | - | - | 22/25V | - |
| C433 | F - 8 | 32/25V | 32/25V | - | 33/25V | 33/25V |
| C434 | F - 8 | 100P | 100P | - | 100P | 100P |
| C440 | F - 9 | - | - | - | 10 | - |
| C442 | C - 6 | - | 10K | 10K | 10K | 10K |
| C442 | B - 5 | JW (5.0) | JW (5.0) | - | JW (5.0) | JW (5.0) |
| C446 | E - 8 | 100/16V | 100/16V | - | 100/16V | 100/16V |
| C449 | F - 10 | 22/25V | 22/25V | 0.47 | 22/25V | 22/25V |
| C451 | F - 10 | 22/25V | 22/25V | 0.47 | 22/25V | 22/25V |
| C460 | D - 10 | ○ | ○ | ○ | - | ○ |
| C462 | D - 10 | - | - | - | ○ | - |
| C463 | A - 4 | SP | SP | SP | SP | SP |
| C464 | C - 14 | 2P | 2P | - | - | - |
| C464 | G - 14 | - | - | - | - | - |
| C465 | A - 5 | 18P | 18P | - | 18P | 18P |
| C468 | A - 5 | 2P | 2P | - | 2P | 2P |
| C469 | J - 11 | - | - | - | 4P | - |
| C470 | E - 5 | MT2J-77-10B | MT2J-77-10B | MT2J-77-10B | MT2J-77-10B | MT2J-77-10B |
| C470 | E - 8 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | F - 5 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | F - 8 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | G - 8 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | H - 7 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | I - 7 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C470 | J - 7 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C471 | D - 6 | RD105SB | RD105SB | RD105SB | RD105SB | RD105SB |
| C471 | D - 7 | - | - | - | M62470AP | - |
| C471 | E - 5 | CXA1545AS | CXA1545AS | CXA1545AS | CXA1545AS | CXA1545AS |
| C473 | O - 10 | - | MM1114XFF | MM1114XFF | - | - |
| C474 | F - 10 | - | MM1118XFF | MM1118XFF | - | - |
| C475 | G - 6 | - | - | - | 680 | - |
| C476 | H - 9 | - | - | - | 1K | - |
| C476 | I - 2 | 3P | 3P | 3P | 3P | 3P |
| C476 | J - 2 | 2P | 2P | 2P | 2P | 2P |
| C477 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C477 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C478 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C478 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C479 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C479 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C480 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C480 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C481 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C481 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C482 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C482 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C483 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C483 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C484 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C484 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C485 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C485 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C486 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C486 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C487 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C487 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C488 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C488 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C489 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C489 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C490 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C490 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C491 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C491 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C492 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C492 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C493 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C493 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C494 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C494 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C495 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C495 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C496 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C496 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C497 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C497 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C498 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C498 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C499 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C499 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C500 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C500 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C501 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C501 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C502 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C502 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C503 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C503 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C504 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C504 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C505 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C505 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C506 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C506 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C507 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C507 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C508 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C508 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C509 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C509 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C510 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C510 | G - 5 | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) | CHIP (2012) |
| C511 | F - 5 | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| C511 | G - 5 | CHIP (2012) | CHIP (2012) | | | |

UA [A/V SW,
A/V INPUT,
A/V OUTPUT]

- UA BOARD -



M BOARD IC101 CXP80424



M BOARD

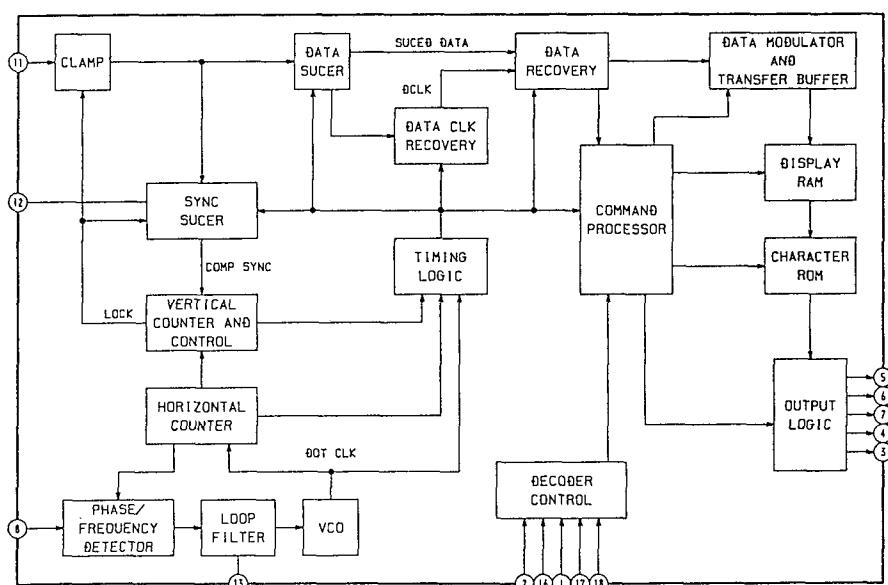
| IC | |
|-------|--------------|
| IC101 | C - 6, H - 6 |
| IC102 | B - 7, I - 7 |
| IC103 | D - 4, G - 4 |
| IC150 | B - 4, I - 4 |
| IC201 | C - 2, H - 2 |
| IC202 | D - 1 |
| IC301 | C - 3, H - 3 |

| TRANSISTOR | |
|------------|-------|
| Q001 | E - 6 |
| Q002 | G - 5 |
| Q004 | H - 7 |
| Q005 | H - 7 |
| Q151 | G - 5 |
| Q201 | J - 1 |
| Q301 | A - 2 |
| Q302 | A - 2 |
| Q308 | E - 4 |

DIODE

| | |
|------|--------------|
| D001 | F - 6 |
| D002 | F - 6 |
| D004 | E - 4 |
| D005 | G - 6 |
| D006 | C - 7, I - 7 |
| D007 | C - 7, I - 7 |
| D008 | C - 7, I - 7 |
| D009 | C - 7, I - 7 |
| D150 | H - 5 |
| D201 | A - 1 |
| D202 | A - 1 |
| D205 | D - 2 |
| D206 | B - 2, I - 2 |
| D301 | B - 4, I - 4 |
| D304 | B - 4, I - 4 |

M BOARD IC150 Z8622812PSC

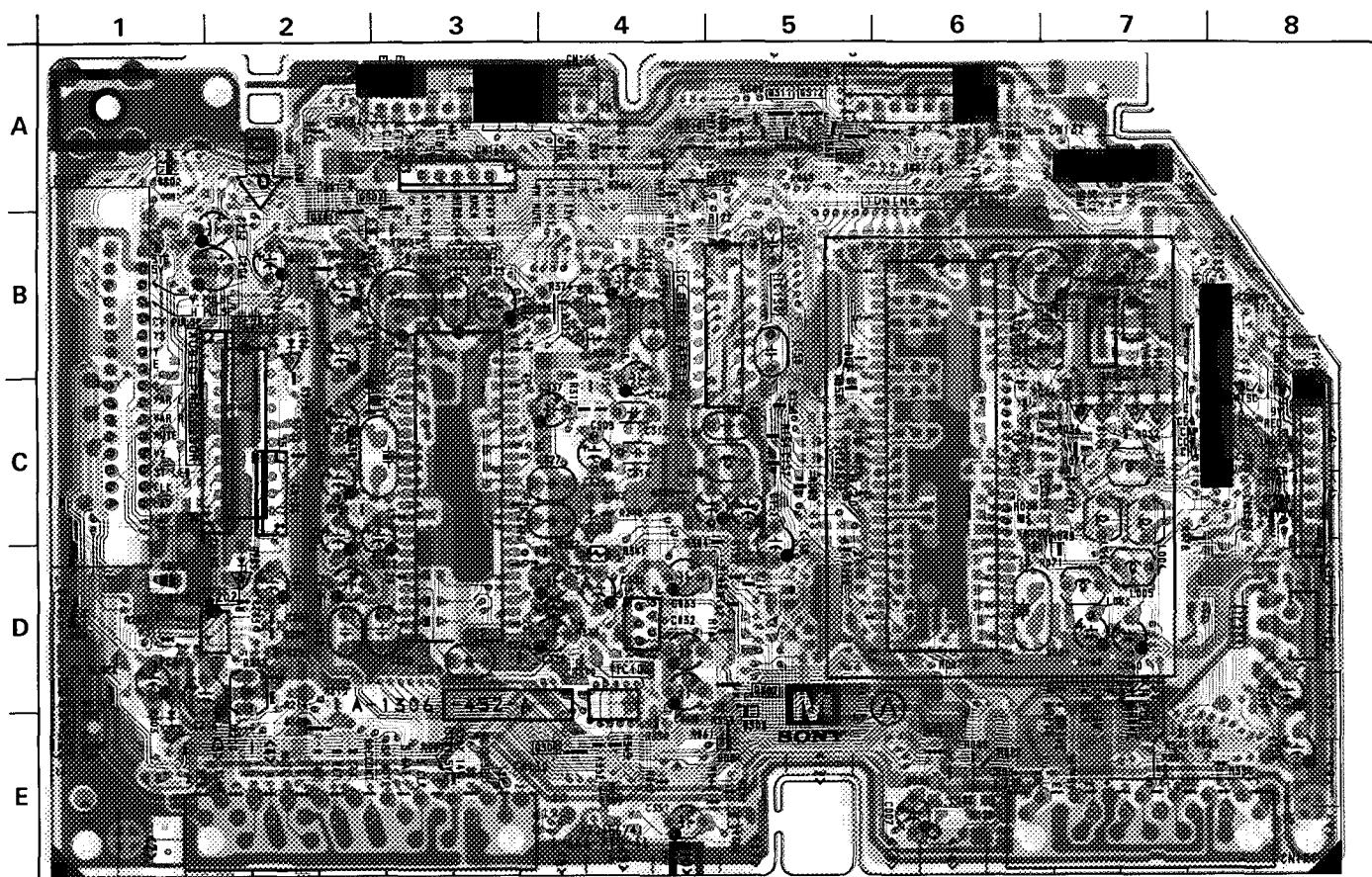


Note :

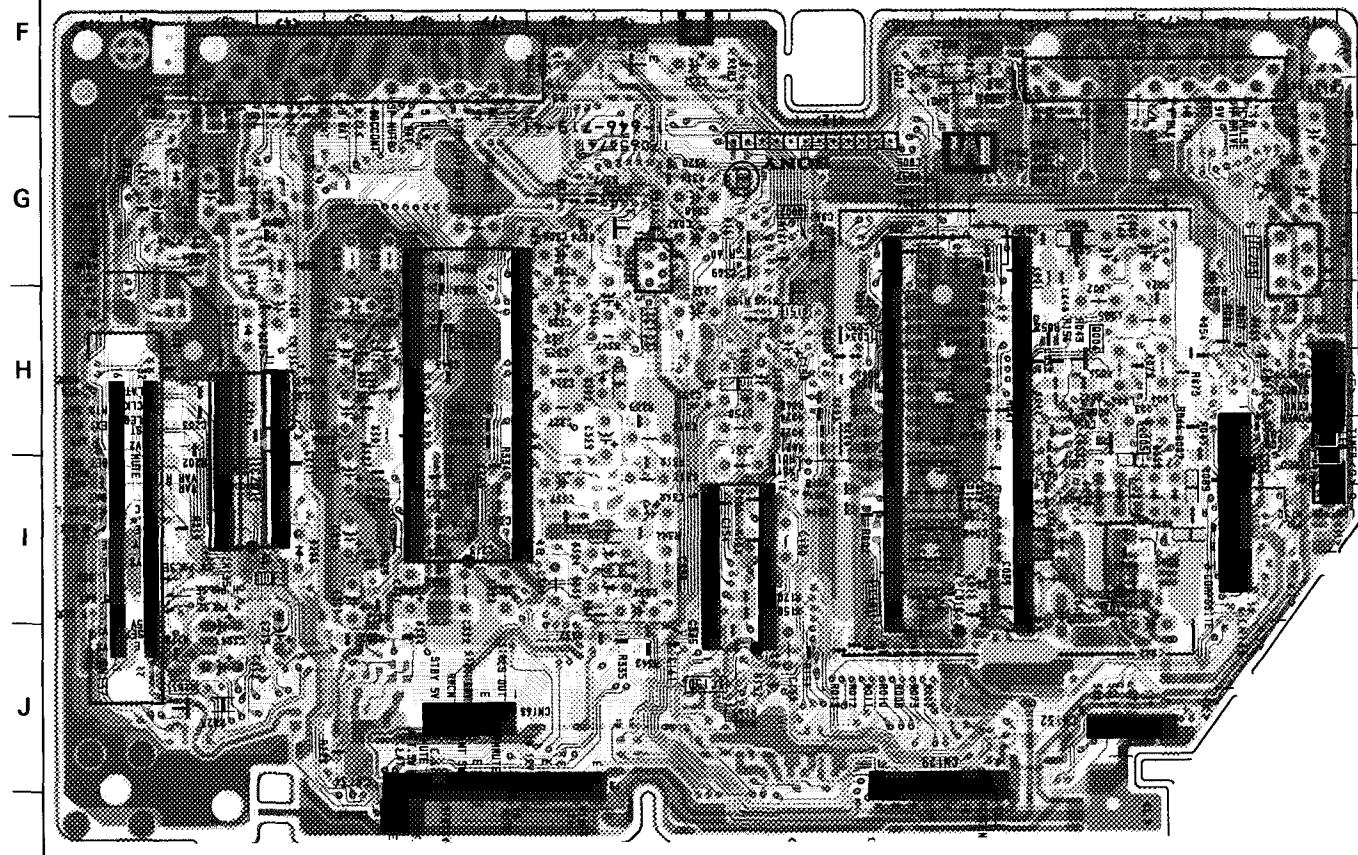
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

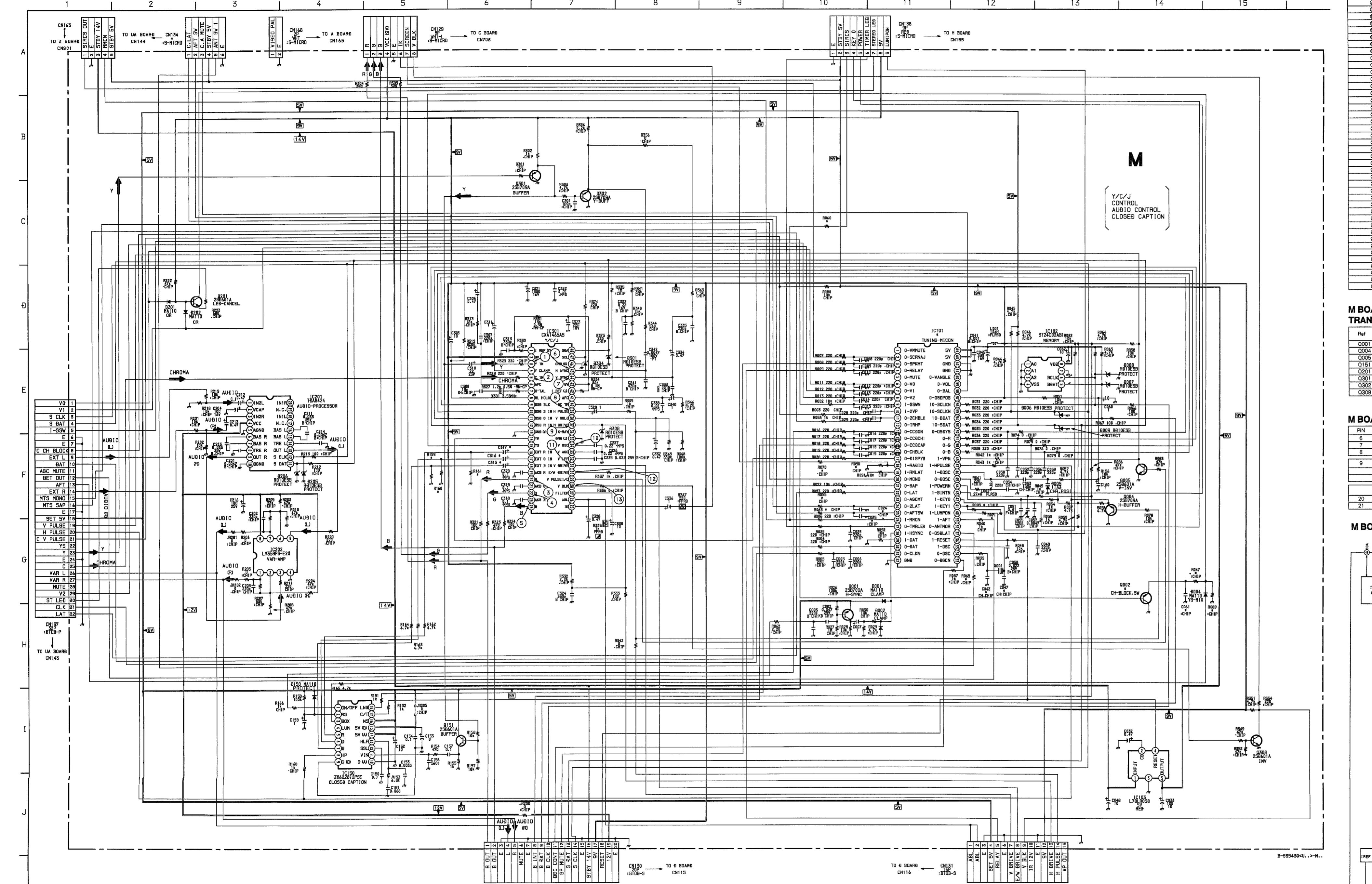
M[Y/C/J, CONTROL,
AUDIO CONTROL,
CLOSED CAPTION]

- M BOARD - <Component Side>



<Conductor Side>

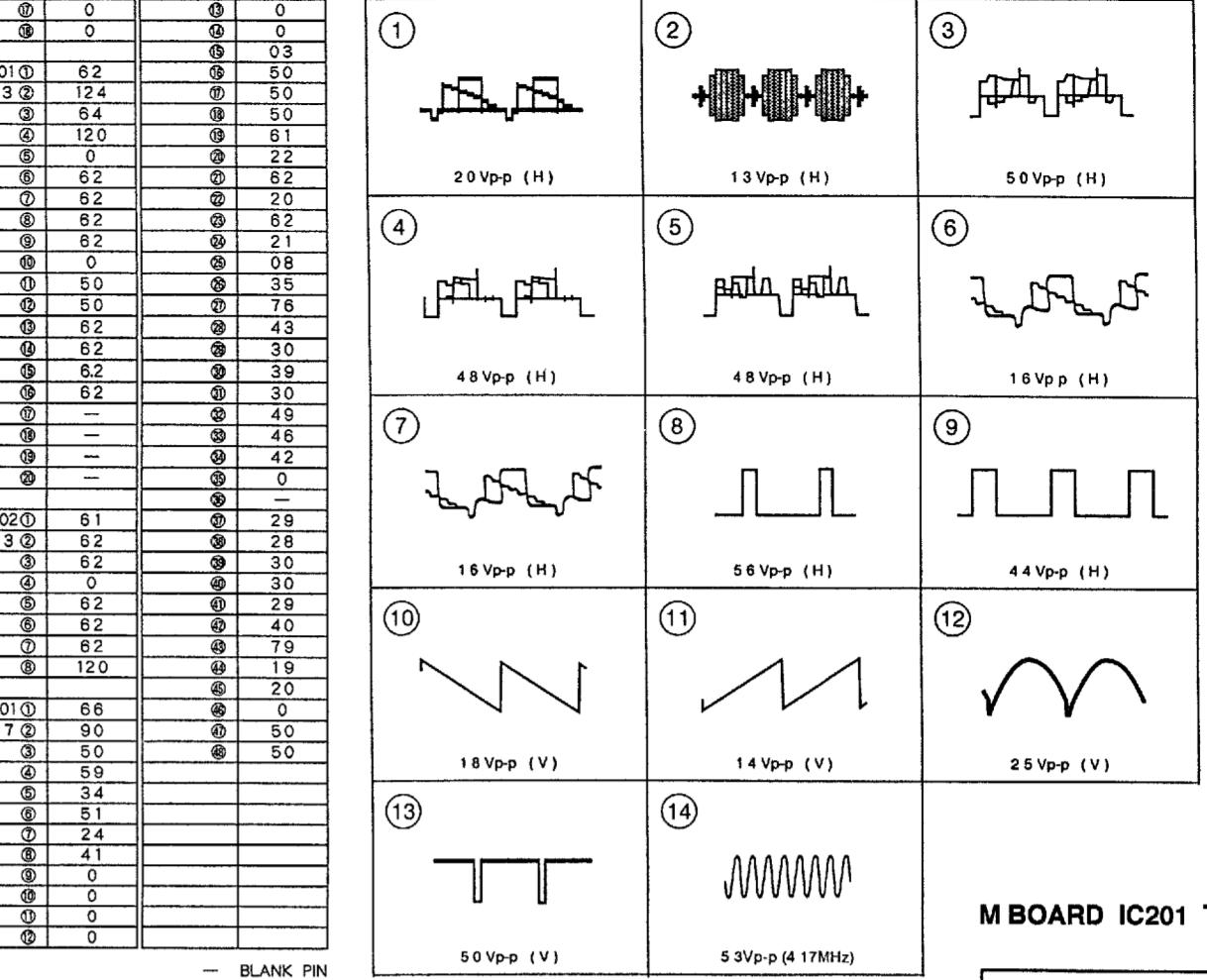




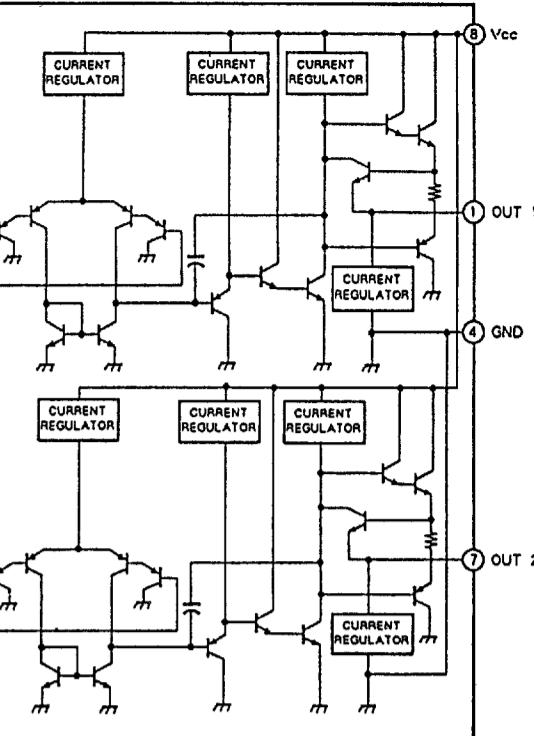
M BOARD IC VOLTAGE LIST

| | | | |
|----------|-------|-------|------|
| IC101(1) | 0 | 0 | 0 |
| E-11(2) | 0 | 50 | 0 |
| ④ 49 | 50 | 51 | 0 |
| ⑤ 51 | 50 | F-3 ② | 12.4 |
| ⑥ 51 | 26 | 54 | 50 |
| ⑦ 0 | — | 120 | 51 |
| ⑧ 0 | — | 22 | 62 |
| ⑨ 0 | — | 62 | 62 |
| ⑩ 0 | — | 62 | 20 |
| ⑪ 0 | — | 62 | 62 |
| ⑫ 0 | — | 21 | 62 |
| ⑬ 0 | — | 68 | 62 |
| ⑭ 0 | — | 55 | 55 |
| ⑮ 0 | — | 76 | 43 |
| ⑯ 0 | — | 62 | 30 |
| ⑰ 0 | — | 39 | 49 |
| ⑱ 29 | 50 | 62 | 30 |
| ⑲ 49 | 50 | — | 49 |
| ⑳ 51 | 50 | 51 | 46 |
| ㉑ 0 | — | 42 | 51 |
| ㉒ 51 | 51 | — | 0 |
| ㉓ 51 | 140 | 61 | 29 |
| ㉔ 01 | — | 62 | 28 |
| ㉕ 26 | 50 | 62 | 30 |
| ㉖ 75 | 62 | 29 | 40 |
| ㉗ 51 | 1-4 ② | 62 | 79 |
| ㉘ 51 | — | 120 | 19 |
| ㉙ 02 | — | 20 | 51 |
| ㉚ 51 | — | 50 | 59 |
| ㉛ 51 | — | 50 | 34 |
| ㉜ 29 | 18 | 24 | 41 |
| ㉝ 09 | 17 | 24 | 41 |
| ㉞ 01 | 15 | 0 | 0 |
| ㉟ 0 | 50 | 0 | 0 |
| ㉟ 0 | 50 | 0 | 0 |

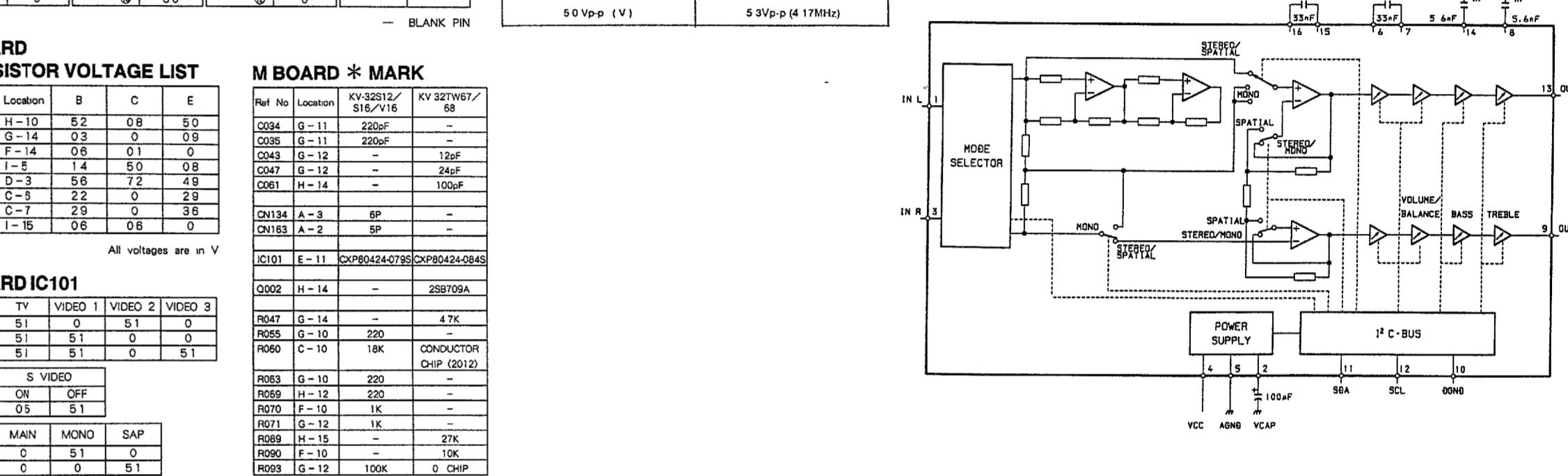
M BOARD WAVEFORMS



M BOARD IC202 LM358PS-E20



M BOARD IC201 TDA8424



M BOARD IC101

| | | | | |
|-----|----|---------|---------|---------|
| PIN | TV | VIDEO 1 | VIDEO 2 | VIDEO 3 |
| 6 | 51 | 0 | 51 | 0 |
| 8 | 51 | 51 | 0 | 51 |

| | | | | |
|----|---------|------|-----|-----------|
| 9 | S VIDEO | ON | OFF | 05 51 |
| 20 | MAIN | MONO | SAP | 21 0 51 0 |
| 21 | 0 | 51 | 0 | 21 0 0 51 |

M BOARD TRANSISTOR VOLTAGE LIST

| | | | | |
|------|----------|----|----|----|
| Ref | Location | B | C | E |
| 0001 | H-10 | 52 | 0 | 50 |
| 0004 | G-11 | 03 | 0 | 09 |
| 0005 | F-14 | 06 | 01 | 0 |
| 0161 | I-5 | 14 | 50 | 08 |
| 0201 | D-3 | 22 | 0 | 29 |
| 0202 | C-3 | 22 | 0 | 29 |
| 0208 | I-15 | 06 | 0 | 0 |

M BOARD * MARK

| | | | |
|--------|----------|-------------------|--------------|
| Ref No | Location | KV-32SWB7/S16/V16 | KV-32TWB7/S8 |
| Q024 | C-11 | 220f | — |
| Q025 | C-12 | 220f | — |
| Q043 | D-12 | — | 12f |
| C047 | G-12 | — | 24f |
| C061 | H-14 | — | 100f |

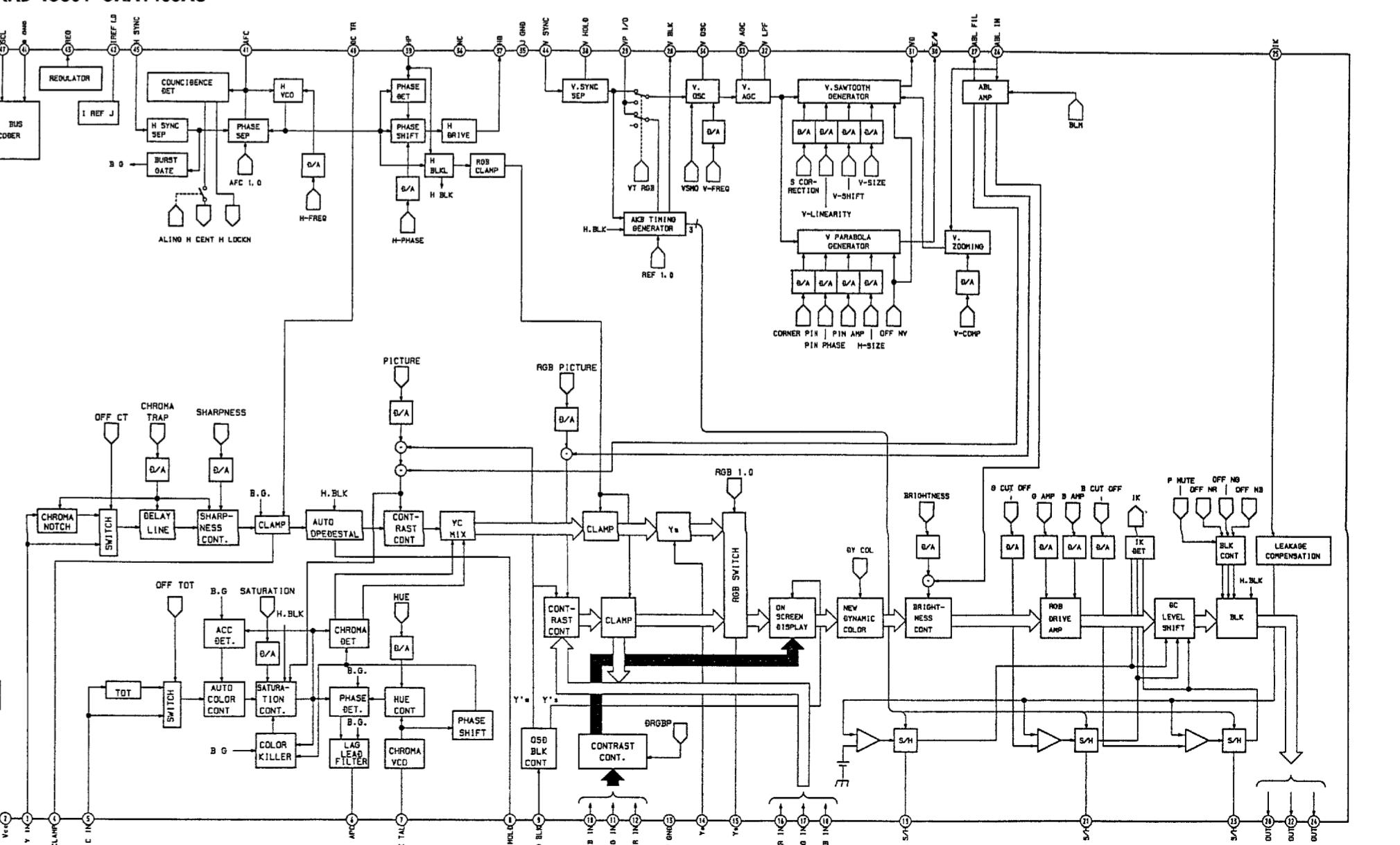
All voltages are in V

| | | | |
|-------|------|-------------|-----------------------|
| IC101 | E-11 | CX902424793 | CX902424-0848 |
| Q002 | H-14 | — | 25B709A |
| Q047 | D-14 | — | 4.7K |
| R055 | C-10 | 220 | — |
| R060 | C-10 | 18K | CONDUCTOR CHIP (2012) |
| R083 | G-10 | 220 | — |
| R059 | H-12 | 220 | — |
| R021 | G-12 | 1K | — |
| R089 | H-15 | 1K | — |
| R090 | F-10 | 27K | — |
| R093 | G-12 | 100K | 0 CHIP |

○ TO BE MOUNT
- NOT MOUNT

| | | |
|------|------|-----|
| MAIN | MONO | SAP |
| 20 | 0 | 51 |
| 21 | 0 | 0 |

M BOARD IC301 CXA1465AS

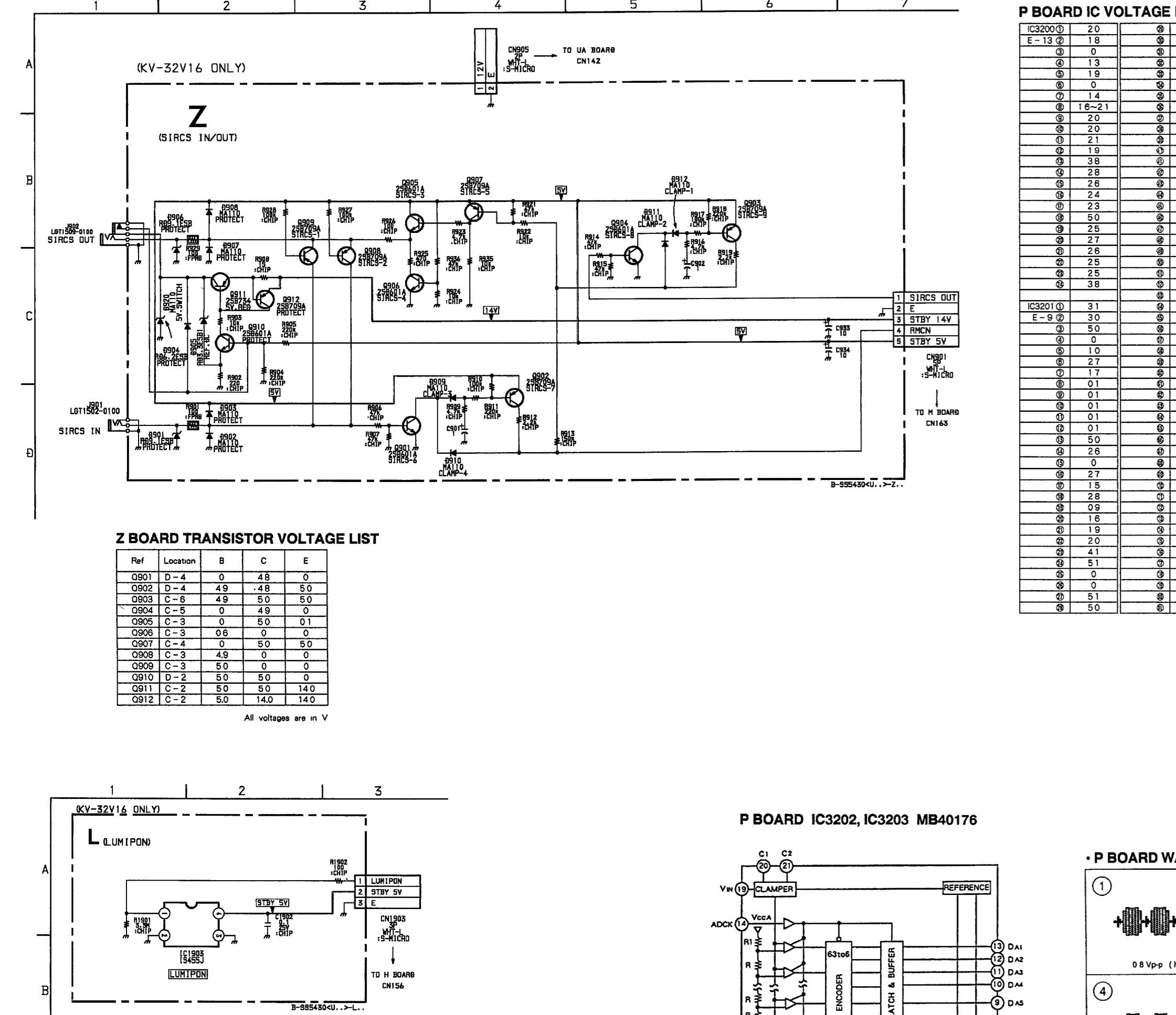


Schematic diagrams

M board

Schematic diagrams

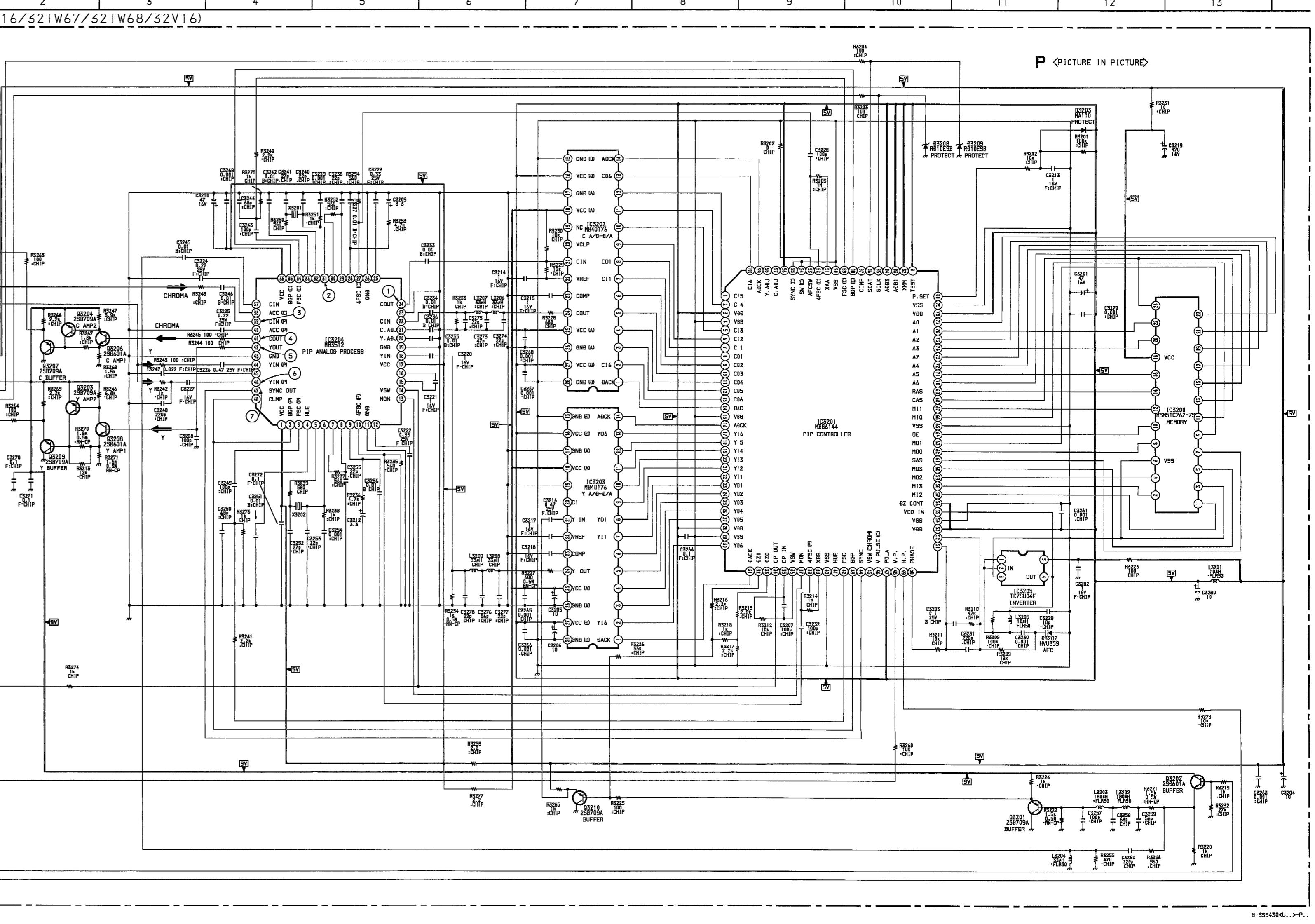
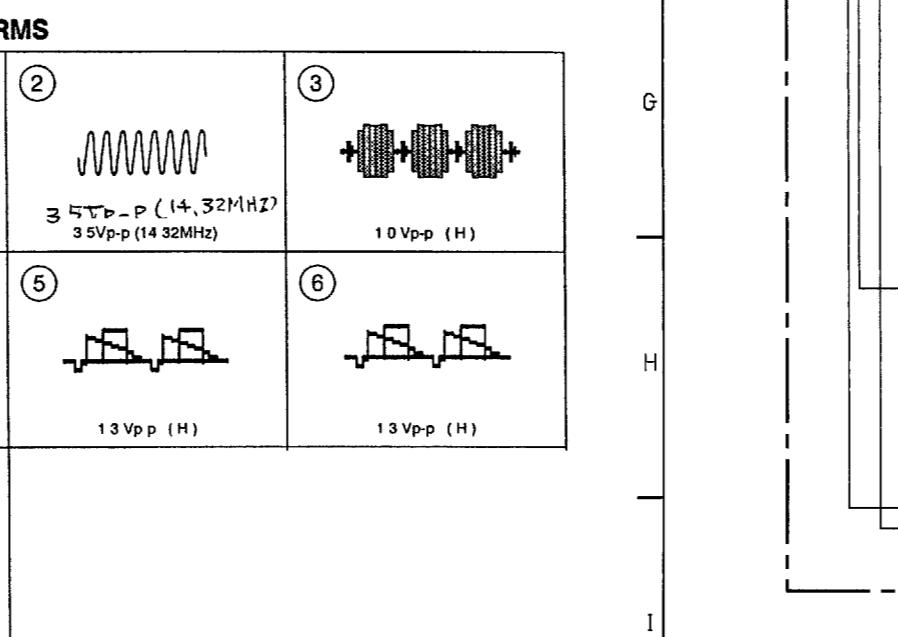
Z boards



All voltages are in V

| | | | | | |
|---------|-----|---|-------------|---|-------------|
| ② | 50 | ⑤ | 0 | ⑧ | 24 |
| ③ | 50 | ⑥ | 51 | ⑨ | 25 |
| ④ | 50 | ⑦ | 4.1 | ⑩ | 3.1 |
| ⑤ | 5.1 | ⑧ | 20 | ⑪ | 33 |
| ⑥ | 50 | ⑨ | 19 | ⑫ | 32 |
| ⑦ | — | ⑩ | 16 | ⑬ | 37 |
| ⑧ | 48 | ⑪ | 09 | ⑭ | 48 |
| ⑨ | 25 | ⑫ | 28 | ⑮ | 5.0 |
| ⑩ | 0 | ⑬ | 15 | ⑯ | 15 |
| ⑪ | 25 | ⑭ | 27 | ⑰ | 28 |
| ⑫ | 24 | ⑮ | 0 | ⑱ | 15 |
| ⑬ | 0 | ⑯ | 50 | ⑲ | 28 |
| ⑭ | 0 | ⑰ | 0 | ⑳ | 20 |
| ⑮ | 0 | ⑱ | 5.0 | ㉑ | 14 |
| ⑯ | 5.0 | ⑲ | 0 | ㉒ | 0 |
| ⑰ | — | ㉑ | — | ㉓ | 28 |
| ⑱ | — | ㉒ | 4.6 | ㉔ | 2.7 |
| ⑲ | 27 | ㉓ | 4.1 | ㉕ | 2.8 |
| ⑳ | 0.7 | ㉔ | 2.8 | ㉖ | 3.3 |
| ㉑ | — | ㉕ | 3.9 | ㉗ | 48 |
| IC3202① | 26 | ㉒ | 50 | ㉘ | — |
| C - 7 ② | 50 | ㉓ | 0 | ㉙ | IC3205① 25 |
| ③ | 01 | ㉔ | 50 | ㉚ | F - 11 ② 25 |
| ④ | 01 | ㉕ | 0 | ㉛ | ③ 0 |
| ⑤ | 0.1 | ㉖ | — | ㉜ | ④ 2.5 |
| ⑥ | 0.1 | ㉗ | IC3204① 50 | ㉝ | ⑤ 60 |
| ㉑ | 0.1 | ㉘ | D - 5 ② 4.8 | ㉞ | — |
| ㉒ | 17 | ㉙ | ㉔ 3.2 | ㉟ | — |
| ㉓ | 27 | ㉚ | ㉕ 3.2 | ㉟ | — |
| ㉔ | 10 | ㉛ | ㉖ 3.4 | ㉟ | — |
| ㉕ | 30 | ㉜ | ㉗ 3.1 | ㉟ | — |
| ㉖ | 31 | ㉝ | ㉘ 2.5 | ㉟ | — |
| ㉗ | 07 | ㉞ | ㉙ 2.4 | ㉟ | — |
| ㉘ | 2.7 | ㉟ | ㉚ 2.7 | ㉟ | — |
| ㉙ | 0 | ㉛ | ㉛ 2.5 | ㉟ | — |
| ㉚ | 50 | ㉜ | ㉜ 0 | ㉟ | — |
| ㉛ | 0 | ㉝ | ㉝ 0.1 | ㉟ | — |
| ㉜ | 5.0 | ㉞ | ㉞ 0.1 | ㉟ | — |
| ㉟ | — | ㉟ | ㉟ 50 | ㉟ | — |
| ㉟ | — | ㉟ | ㉟ 2.6 | ㉟ | — |
| ㉟ | 45 | ㉟ | ㉟ 2.3 | ㉟ | — |
| ㉟ | 4.1 | ㉟ | ㉟ 5.0 | ㉟ | — |
| ㉟ | 28 | ㉟ | ㉟ 2.9 | ㉟ | — |
| ㉟ | 40 | ㉟ | ㉟ 0 | ㉟ | — |
| ㉟ | 50 | ㉟ | ㉟ 3.5 | ㉟ | — |
| ㉟ | 0 | ㉟ | ㉟ 3.6 | ㉟ | — |
| ㉟ | 50 | ㉟ | ㉟ 2.9 | ㉟ | — |
| ㉟ | 0 | ㉟ | ㉟ 0 | ㉟ | — |
| ㉟ | — | ㉟ | ㉟ 1.8 | ㉟ | — |
| IC3203① | 26 | ㉟ | ㉟ 0.1 | ㉟ | — |
| F - 7 ② | 0 | ㉟ | ㉟ 0 | ㉟ | — |
| ③ | 51 | ㉟ | ㉟ 2.5 | ㉟ | — |
| ④ | 0 | ㉟ | ㉟ 2.7 | ㉟ | — |

| Ref | Location | B | C | E |
|-------|----------|-----|-----|-----|
| Q3201 | H - 12 | 1.9 | 0 | 26 |
| Q3202 | H - 13 | 4.5 | 9.0 | 38 |
| Q3203 | E - 2 | 8.6 | 1.5 | 9.0 |
| Q3204 | D - 2 | 8.5 | 2.7 | 9.0 |
| Q3205 | D - 3 | 2.0 | 8.5 | 1.4 |
| Q3207 | D - 2 | 2.7 | 0 | 3.4 |
| Q3208 | E - 3 | 1.4 | 8.6 | 0.9 |
| Q3209 | E - 2 | 1.5 | 0 | 2.2 |
| Q3210 | H - 7 | 2.6 | 0 | 2.2 |



P

[PICTURE IN PICTURE]

Z

[SIRCS IN/OUT]

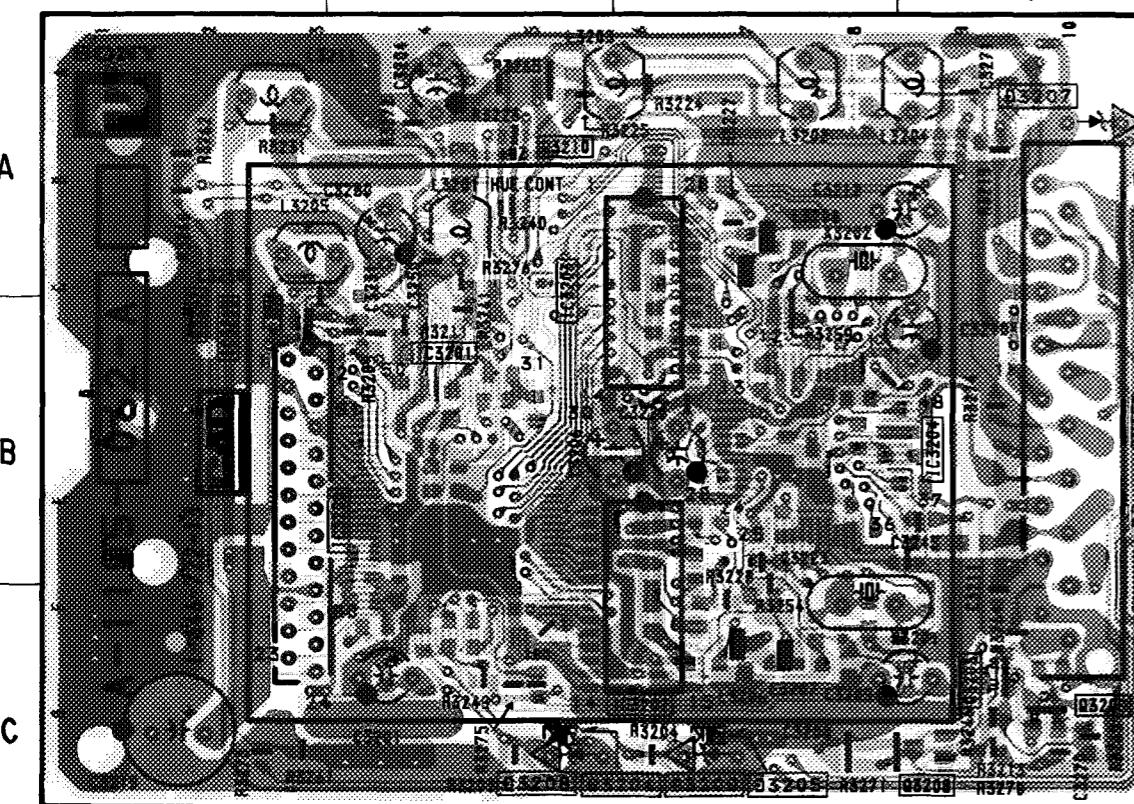
L

[LUMIPON]

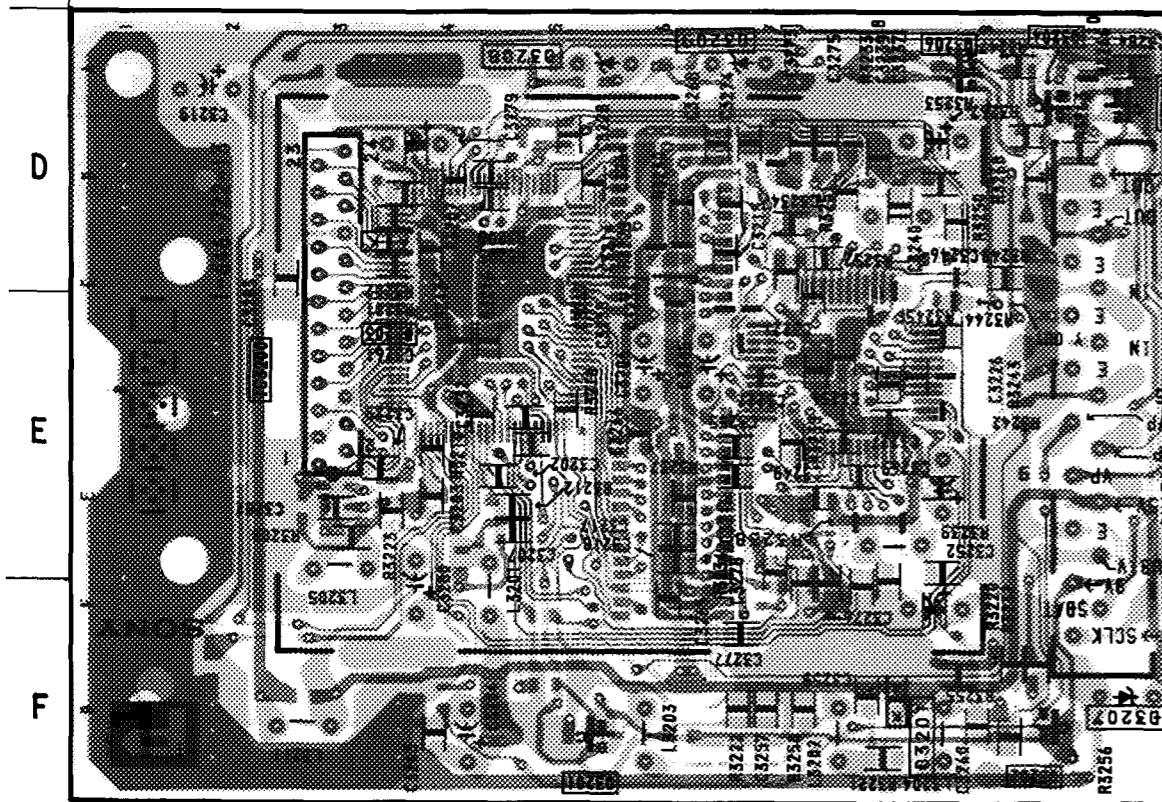
- P BOARD - <Component Side>

(KV-32S16/32TW67/32TW68/32V16 only)

1 2 3 4

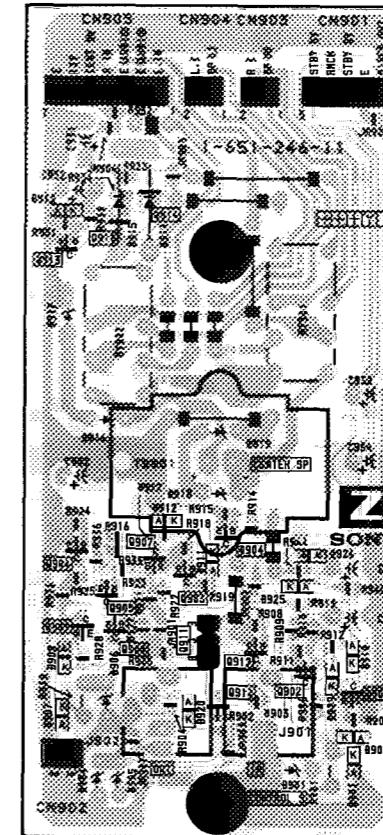


<Conductor Side>

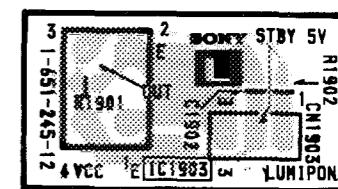


| IC | |
|------------|-------|
| IC3200 | E - 1 |
| IC3201 | B - 2 |
| IC3202 | C - 3 |
| IC3203 | B - 3 |
| IC3204 | B - 3 |
| IC3205 | B - 1 |
| TRANSISTOR | |
| Q3201 | F - 2 |
| Q3202 | F - 4 |
| Q3203 | C - 4 |
| Q3204 | D - 4 |
| Q3206 | D - 4 |
| Q3207 | D - 4 |
| Q3208 | C - 3 |
| Q3209 | C - 4 |
| Q3210 | A - 2 |
| DIODE | |
| D3202 | B - 1 |
| D3203 | D - 2 |
| D3208 | D - 2 |
| D3209 | D - 3 |

- Z BOARD - (KV-32V16 only)



- L BOARD - (KV-32V16 only)



Note :

- ~ : Pattern from the side which enables seeing.
- < : Pattern of the rear side.

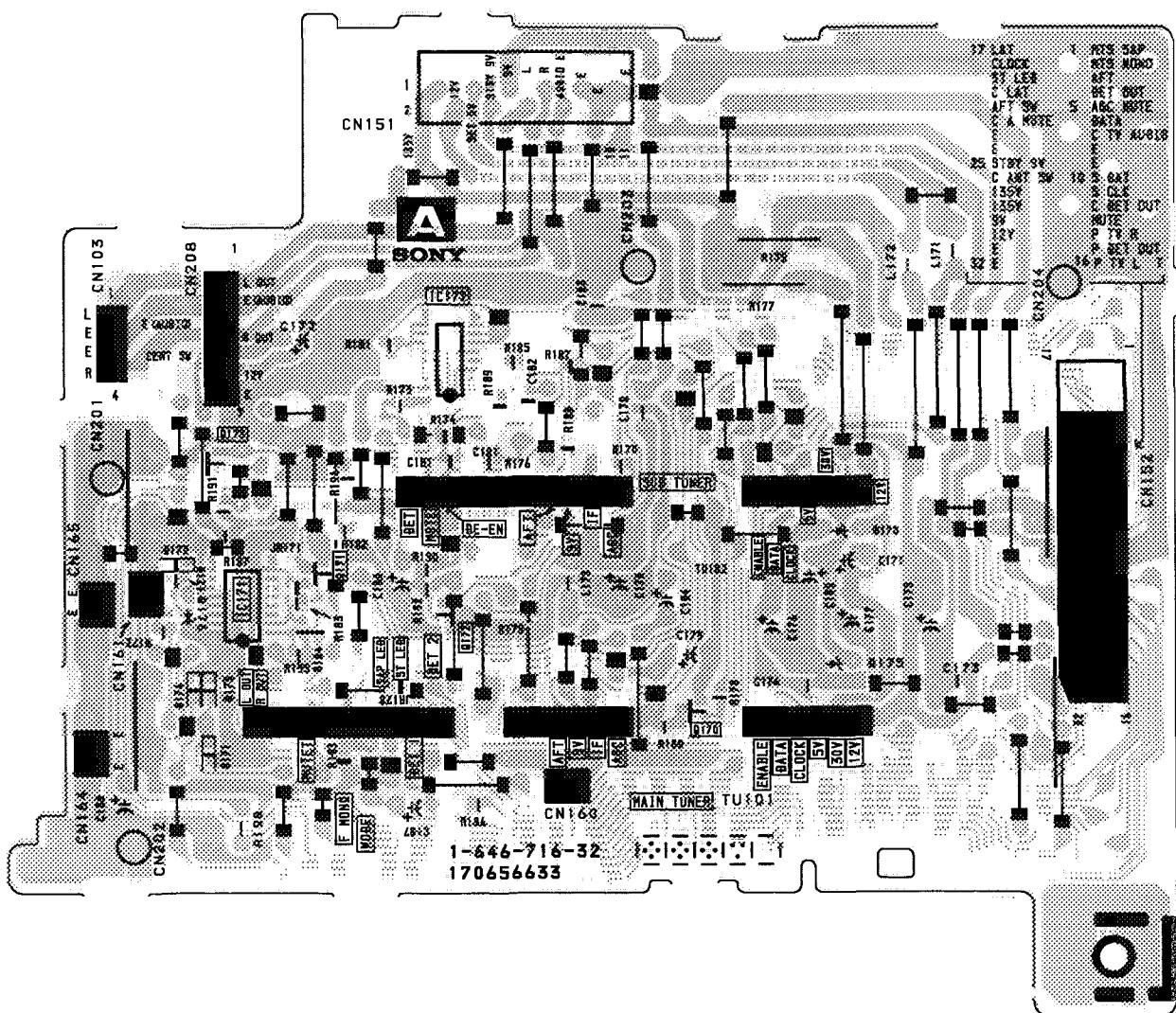
A

[TU VIE MTS]

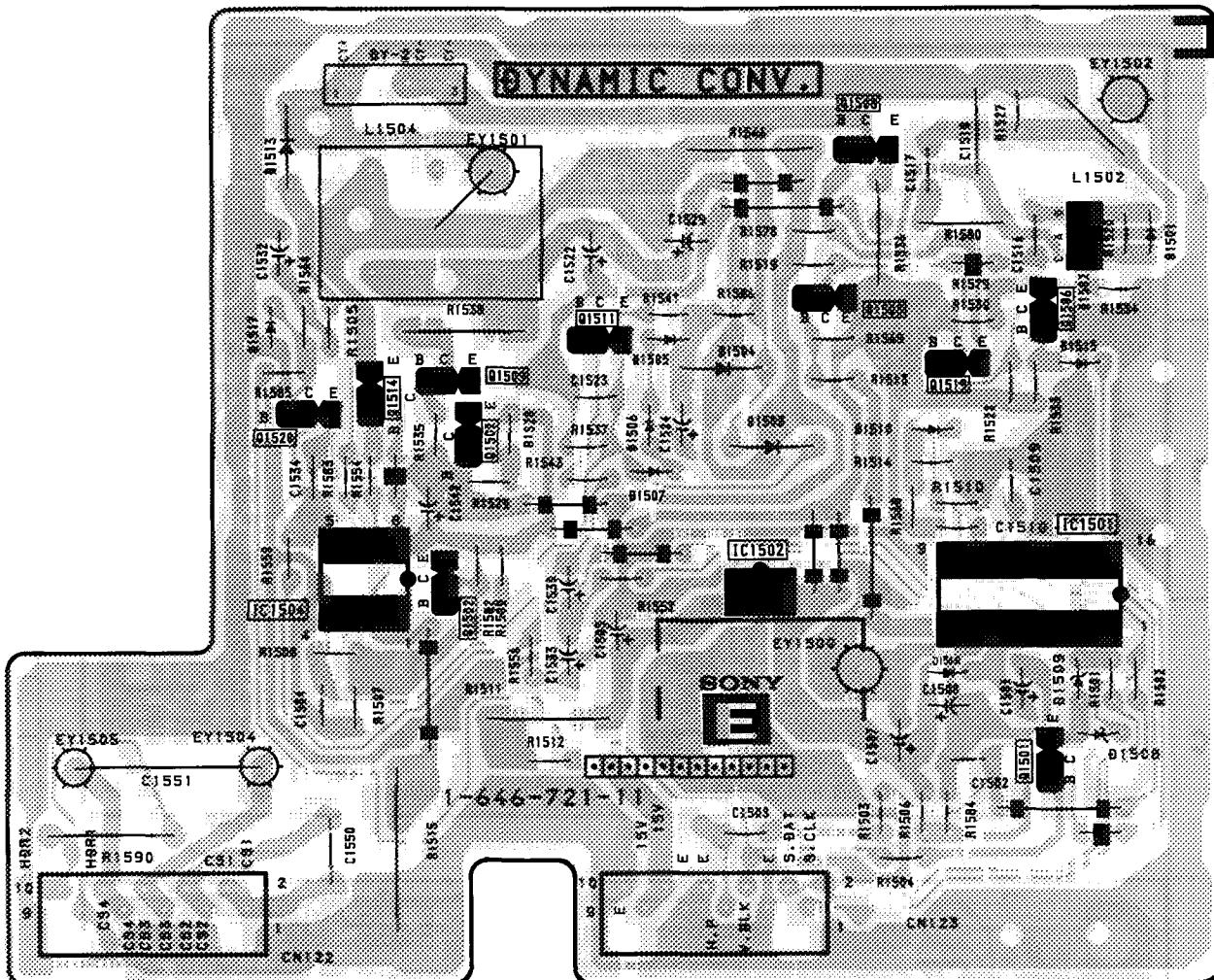
E

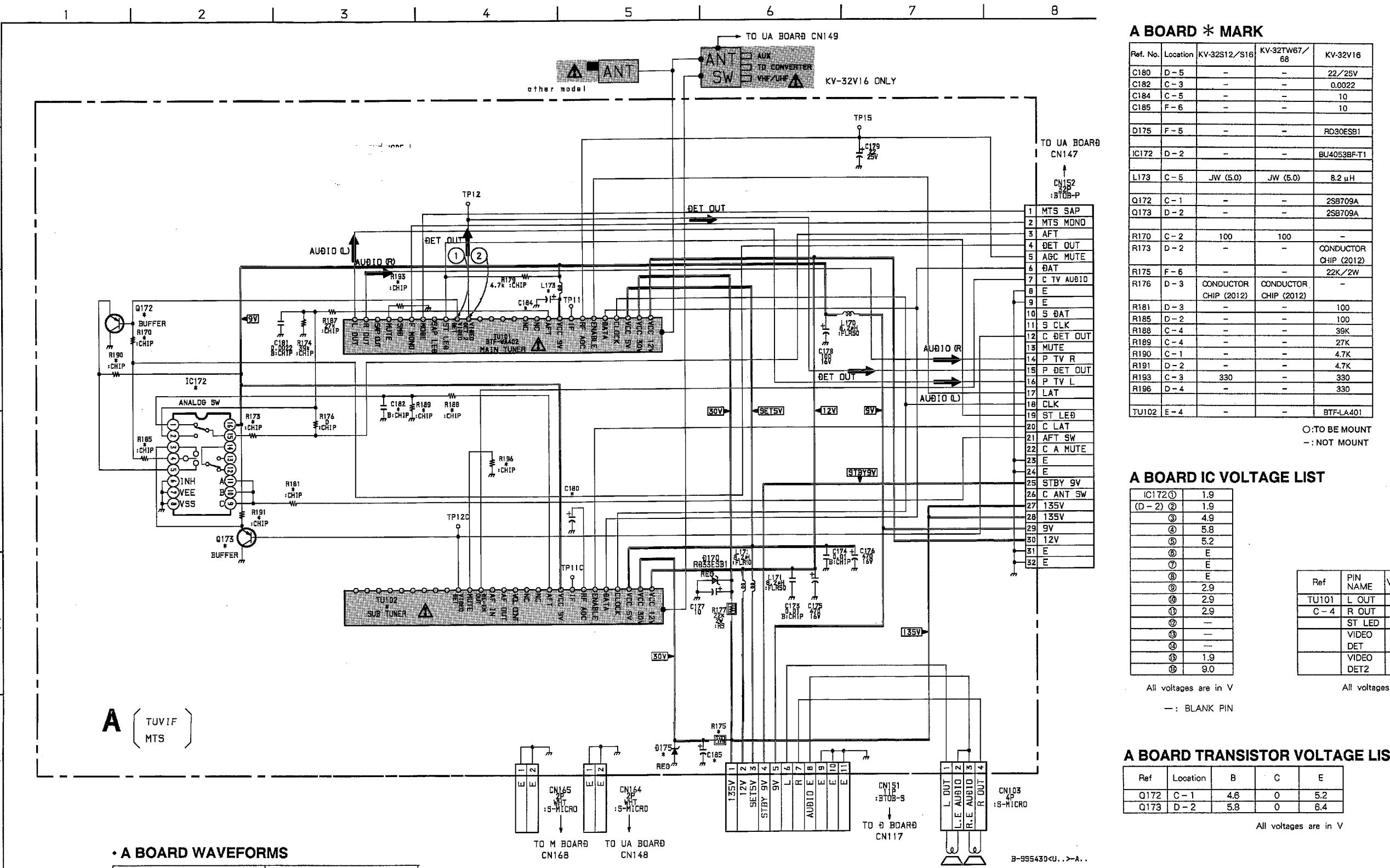
DYNAMIC,
CONVERGENCE

- A BOARD -

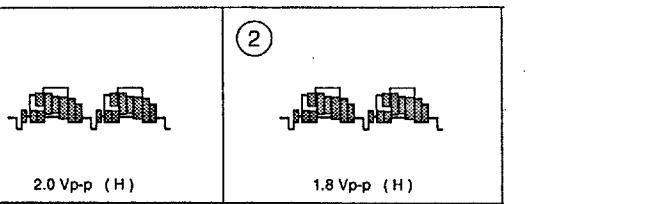


- E BOARD -





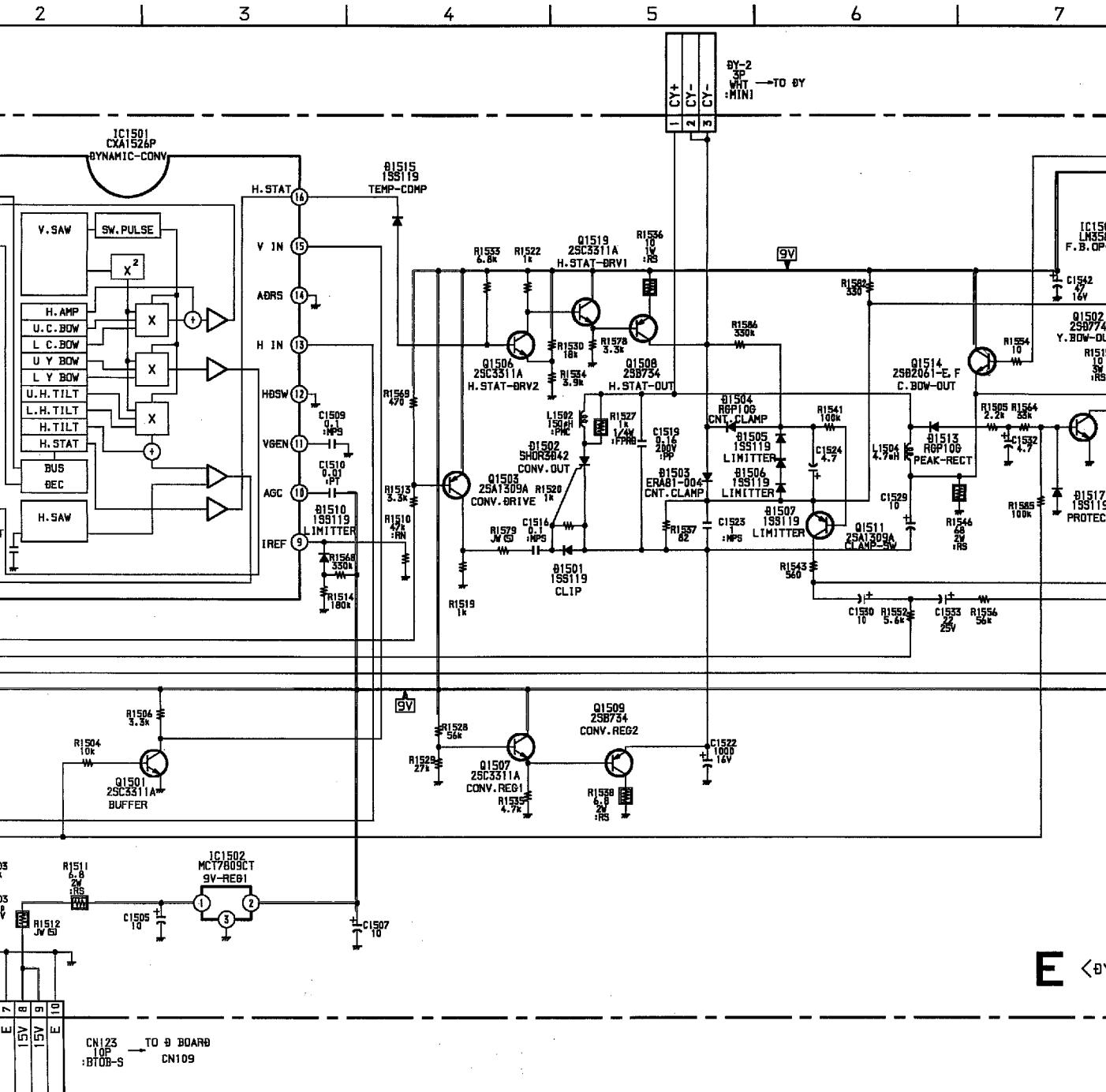
BOARD WAVEFORMS



□ |

are in V

[View all posts by **John**](#) [View all posts in **Uncategorized**](#)



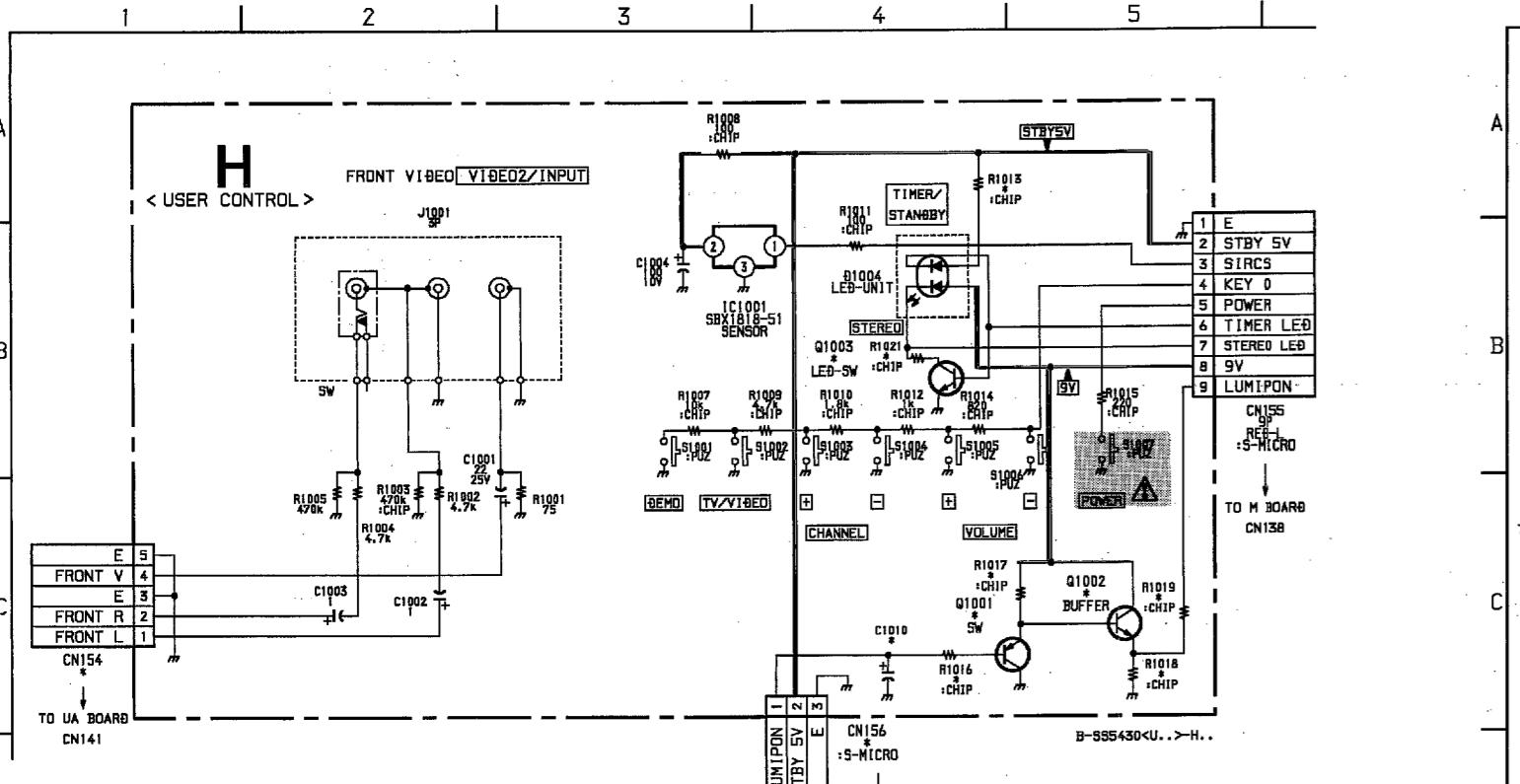
E BOARD IC VOLTAGE

All vol

E BOARD TRANSISTOR VOLTAGE LIST

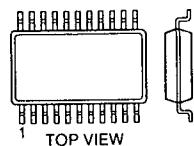
| | Ref | Location | B | C |
|----|-------|----------|------|-----|
| 1 | Q1501 | D - 3 | 0.1 | 8.1 |
| 2 | Q1502 | B - 7 | 1.4 | 4.2 |
| 3 | Q1503 | C - 4 | 9.0 | 7.7 |
| 4 | Q1506 | B - 4 | 4.1 | 8.8 |
| 5 | Q1507 | D - 4 | 3.0 | 9.0 |
| 6 | Q1508 | B - 5 | 8.1 | 4.5 |
| 7 | Q1509 | D - 5 | 2.4 | 0.5 |
| 8 | Q1511 | C - 6 | 3.8 | 0.8 |
| 9 | Q1514 | B - 7 | 5.4 | 9.0 |
| 10 | Q1519 | B - 5 | 8.8 | 9.0 |
| 11 | Q1520 | C - 7 | -0.5 | 4.8 |

10 HBR2



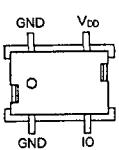
4-5. SEMICONDUCTORS

BU4053BCF

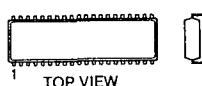


16pin SOP

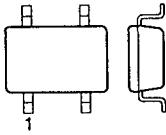
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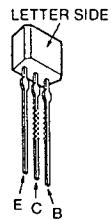
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Z8622812PSC



TC7SU04F

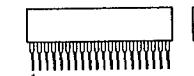


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2SC2785-HFE

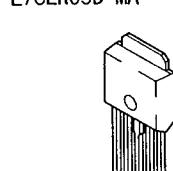


CAT51C262-ZS
MSM51C262-ZS

MARKING SIDE VIEW

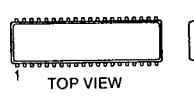


24pin SIP

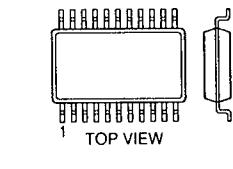


LM358PS

CXA1465AS
CXA1545AS

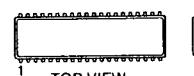


48pin DIP



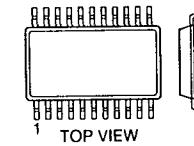
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CXA1526P
MB40176PF-G-BND-EF



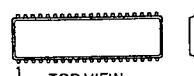
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CXP80424-079S



28pin SOP

CXP80424-084S

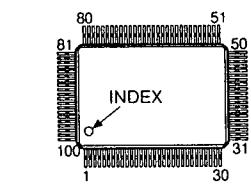


64pin DIP

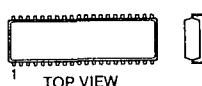
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48pin QFP

MB86144BPF-G-BND



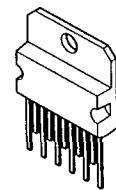
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UPC358C
UPC393C



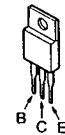
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TDA2009A

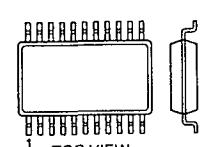
5pin CHIP



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2SB1565F
2SC4159-E
2SD2012



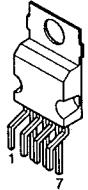
NJM2245M



8pin SOP

NJM7812FA
NJM78M09FA
TA7805S
TA7812S

TDA8172

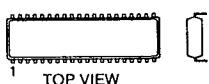


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2SD774-34

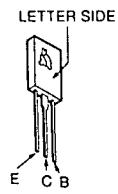


8pin DIP

TDA8424

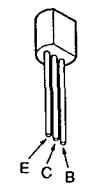


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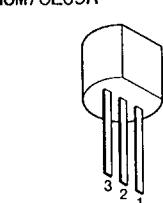
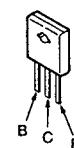
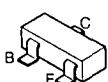


20pin DIP

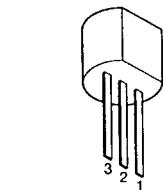
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2SD601A-Q

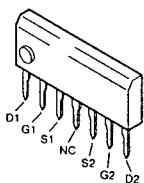


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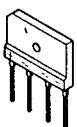


3pin

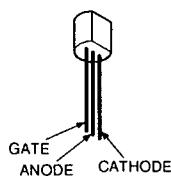
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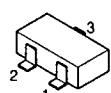
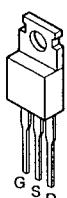
D4SB60L



SH0R3D42



2SD2394-EF



D1N20R

D1NS4

ERA83-006

ERA85-009

RD10ESB2

RD12ESB3

RD3.9ESB2

RD30ESB2

RD33ESB1

RD33ESB2

RD5.1ESB1

RD6.2ESB2

RD8.2ESB3

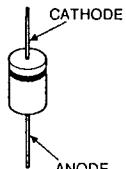
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1SS119-25

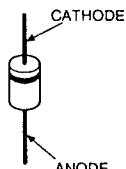
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EGP20G
EL1Z
GP08D

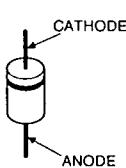
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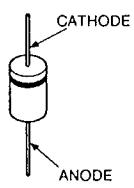
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S2L20UF
S3V10SS



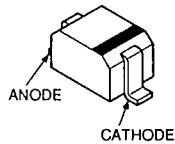
ERD29-08J



D2S4MF



HVU359TRF
MA110
1T33



SECTION 5 EXPLODED VIEWS

NOTE

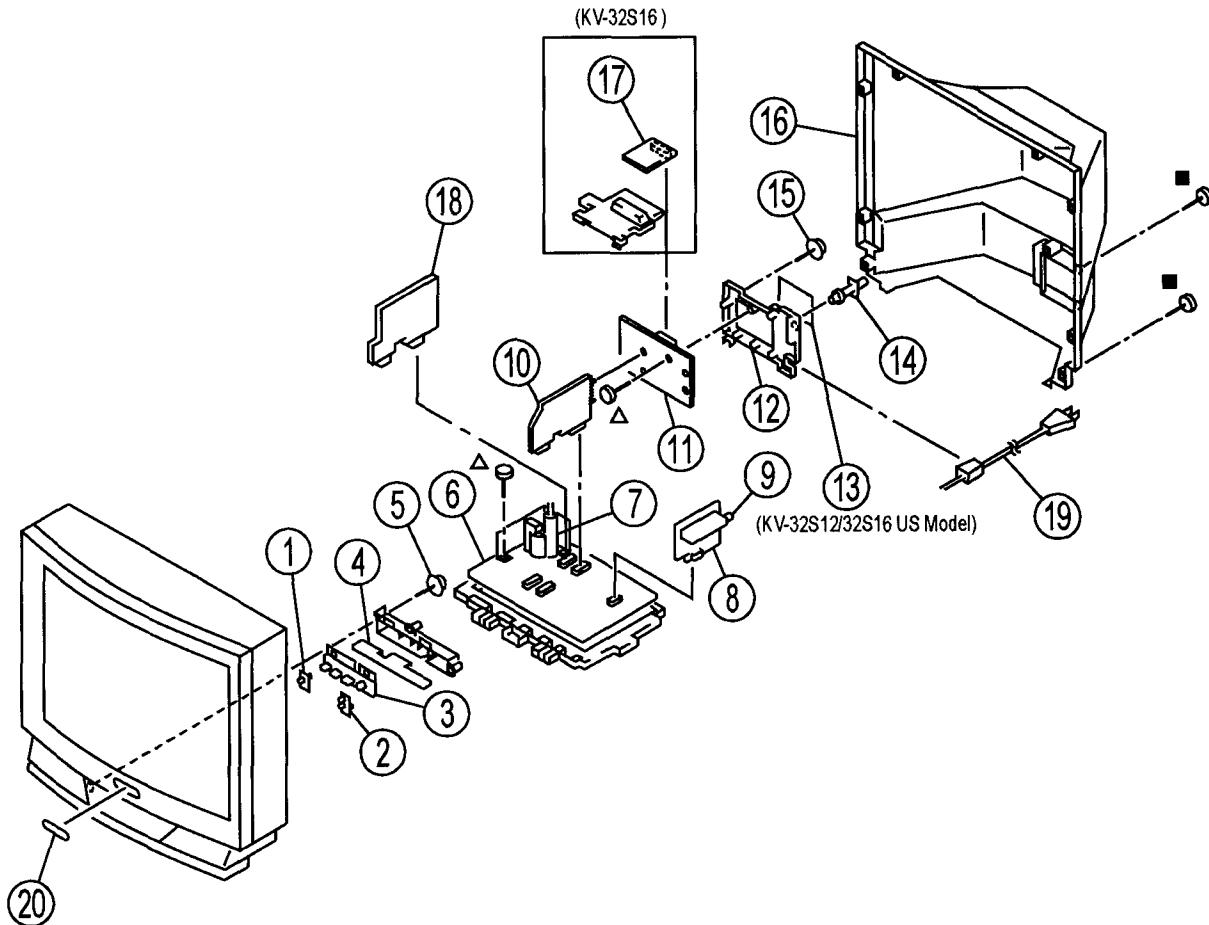
- Items with on part number and on description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items

The components identified by shading and mark Δ are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité
Ne les remplacer que par une pièce portant le numéro spécifié

5-1. CHASSIS (KV-32S12/32S16)

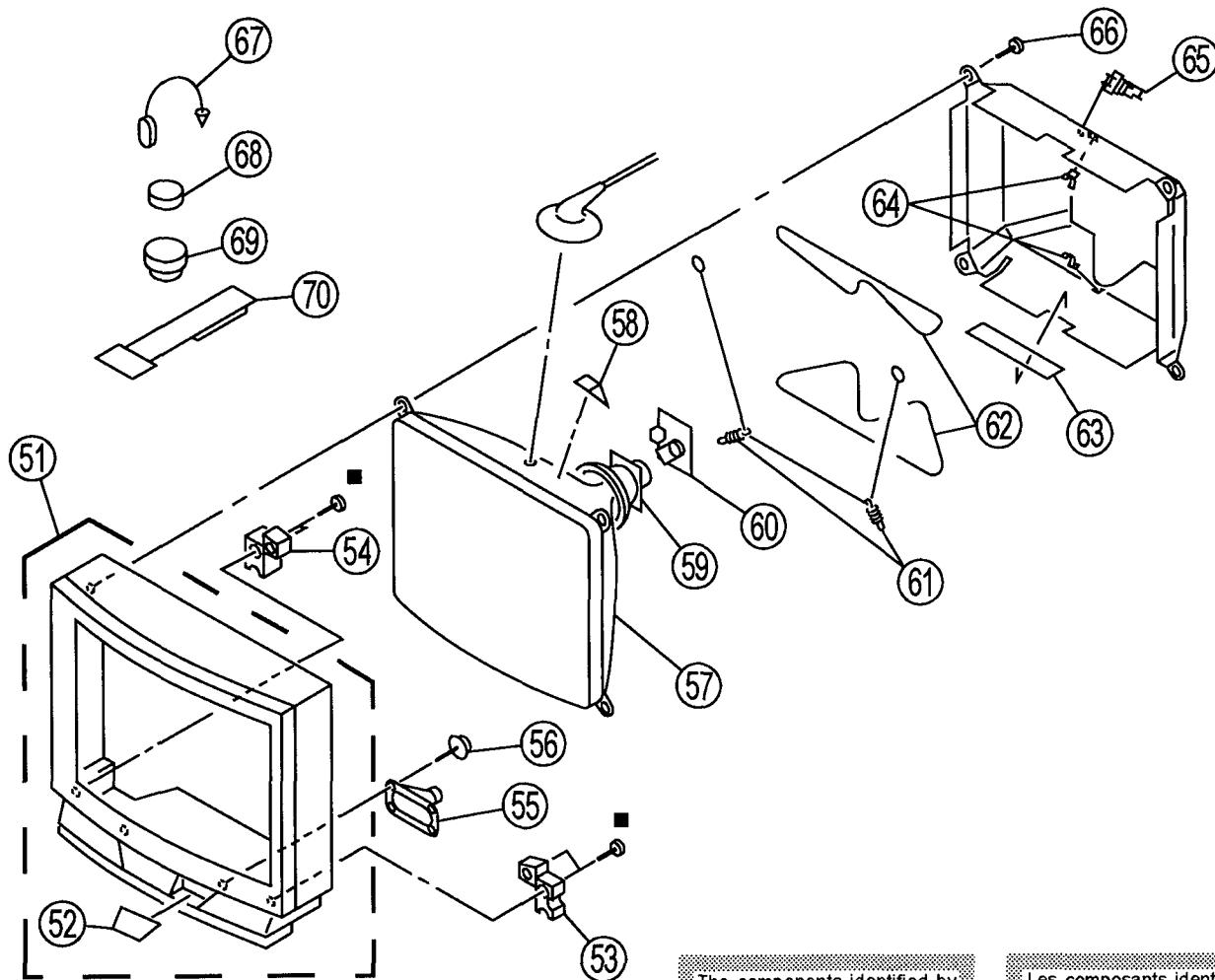
Δ +BVTP 4x12 7-685-661-14
■ +BVTP 4X16 7-685-663-79



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|-----------------------|--|--------|----------|-----------------------|---|---|
| 1 | 4-039-458-01 | FILTER, REMOTE | | | | | * A-1394-544-A UA BOARD, COMPLETE (KV-32S16 Canadian model) |
| 2 | 4-039-457-21 | GUIDE, LED | | | | | * A-1394-676-A UA BOARD, COMPLETE (KV-32S12) |
| 3 | 4-043-303-01 | BUTTON, MULTI | | 12 | 4-039-524-01 | PANELE, ANTENNA TERMINAL | |
| 4 | * A-1371-994-A | H BOARD, COMPLETE | | 13 | 4-039-834-01 | LABEL, TERMINAL (KV-32S12/32S16 US model) | |
| 5 | 4-319-520-11 | SCREW, SPECIAL (+PW 4X30) | | 14 | 1-766-374-11 | PULUG, F-PIN | |
| 6 | * A-1364-193-A | D BOARD, COMPLETE | | 15 | 4-382-854-11 | SCREW (M3X10), P, SW (+) | |
| 7 | Δ 4-453-146-11 | TRANSFORMER ASSY, FLYBACK (NX-2604A3) | | 16 | 4-039-634-11 | COVER, REAR | |
| 8 | * A-1297-221-A | A BOARD, COMPLETE | | 17 | * A-1195-062-A | P BOARD, COMPLETE (KV-32S16 US model) | |
| 9 | Δ 8-598-254-00 | TUNER-BTF-WA402 | | 18 | * A-1341-622-A | E BOARD, COMPLETE | |
| 10 | * A-1306-454-A | M BOARD, COMPLETE | | 19 | Δ 1-731-059-11 | CORD, POWER (WITH CONNECTOR) 10A/125V | |
| 11 | * A-1394-527-A | UA BOARD, COMPLETE (KV-32S16 US model) | | 20 | 4-046-160-01 | EMBLEM (NO 9), SONY | |

5-2. PICTURE TUBE (KV-32S12/32S16)

■ BVTP 4x16 7-685-663-79



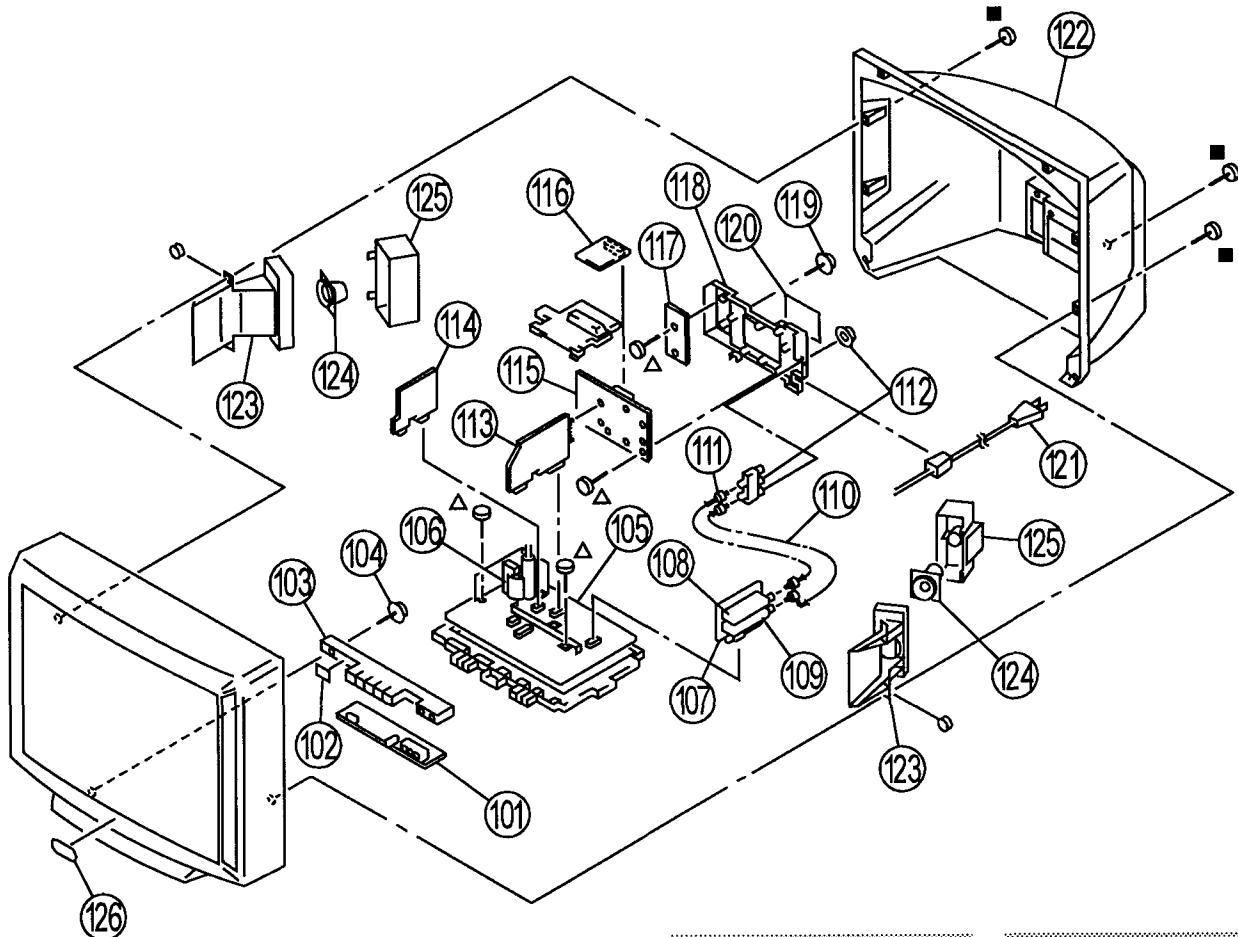
The components identified by shading and mark Δ are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité Ne les remplacer que par une pièce portant le numéro spécifié

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|-----------------------|----------------------------------|--------|---------|----------------|-------------------------------|--------|
| 51 | X-4031-657-1 | BEZET ASSY | | 52 | 4-063-329-01 | SPRING (B), TENSION | |
| 52 | 4-043-222-01 | LID, CONTROL | | 61 | 4-042-952-11 | COIL, DEMAGNETIZATION | |
| 53 | * 4-031-428-11 | SUPPORT (RIGHT) (PICTURE TUBE) | | 62 | * 4-031-698-01 | SHET, ADHESIVE | |
| 54 | * 4-031-430-11 | SUPPORT (LEFT) (PICTURE TUBE) | | 63 | 4-371-629-01 | STOPPER, WIRE | |
| 55 | 1-504-531-11 | SPEAKER (13 1X6 2CM) | | 64 | 4-033-681-01 | HOLDER, LEAD | |
| 56 | 4-388-477-01 | SCREW (3X16), TAPPING +BV WASHER | | 65 | 4-041-268-01 | SCREW (7), TAPPING | |
| 57 | Δ 8-733-739-01 | PICTURE TUBE (A30JY/51X) | | 66 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 58 | 4-041-361-01 | SPACER, DY | | 67 | 1-452-032-00 | MAGNET, DISC, 10MMØ | |
| 59 | Δ 8-451-315-41 | DEFLECTION YOKE Y34FXA (VTM) | | 68 | 1-452-094-00 | MAGNET, ROTATABLE DISK, 15MMØ | |
| 60 | * A-1331-351-A | C BOARD, COMPLETE | | 69 | X-4306-312-0 | PERMALLOY AASY, CONVERGENCE | |

5-3. CHASSIS (KV-32V16)

△ +BVTP 4x12 7-685-661-14
 ■ +BVTP4X16 7-685-663-79

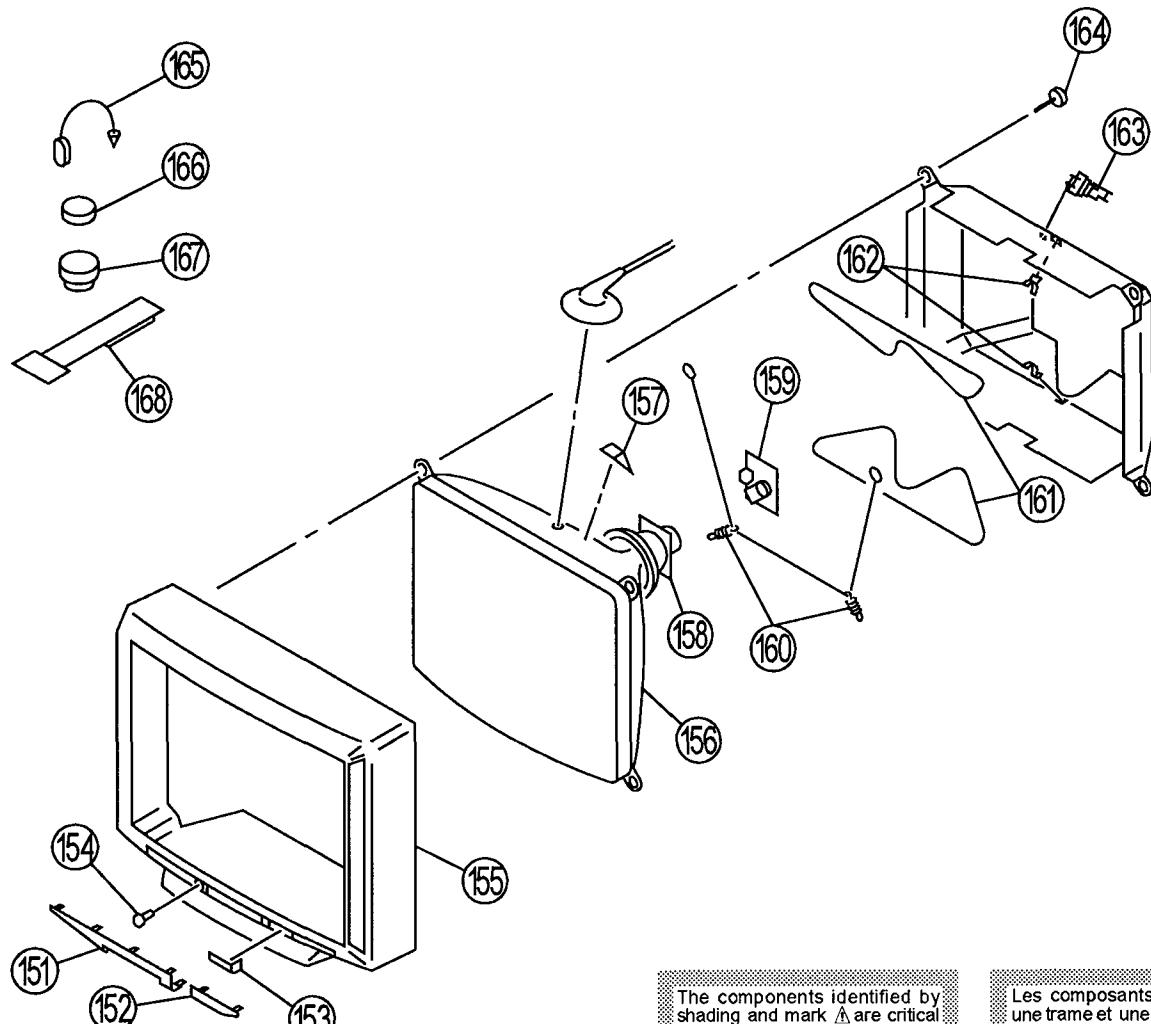


The components identified by shading and mark △ are critical for safety.
 Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| REF. NO | PART NO. | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|----------------|--|--------|---------|----------------|---------------------------------------|--------|
| 101 | * A-1371-998-A | H BOARD, COMPLETE | | 114 | * A-1341-622-A | E BOARD, COMPLETE | |
| 102 | * A-1390-410-A | L BOARD, COMPLETE | | 115 | * A-1394-529-A | UA BOARD, COMPLETE | |
| 103 | 4-043-580-01 | BUTTON, MULTI | | 116 | * A-1195-062-A | P BOARD, COMPLETE | |
| 104 | 4-319-520-11 | SCREW, SPECIAL (+PW4X30) | | 117 | A-1390-411-A | Z BOARD, COMPLETE | |
| 105 | * A-1346-201-A | D BOARD, COMPLETE | | 118 | 4-039-517-11 | PANEL, ANTENNA TERMINAL | |
| 106 | △ 1-463-146-11 | TRANSFORMER ASSY, FLYBACK (INX-2604A3) | | 119 | 4-382-854-11 | CCREW (M3X10), P, SW (+) | |
| 107 | * A-1297-233-A | A BOARD, COMPLETE | | 120 | 4-039-834-01 | LABEL, TERNINAL | |
| 108 | △ 8-598-254-00 | TUNER BTF-WA402 | | 121 | △ 1-751-059-11 | CORD, POWER (WITH CONNECTOR) 10A/125V | |
| 109 | △ 8-598-047-11 | TUNER ET-BTF-LA401 | | 122 | 4-043-579-01 | COVER, REAR | |
| 110 | * 1-751-136-11 | CAGLE, PIN | | 123 | 4-043-457-01 | BAFFLE, SPEAKER | |
| 111 | * 1-751-135-11 | CABLE, PIN | | 124 | 1-504-524-11 | SPEAKER (8CM) | |
| 112 | 1-417-178-11 | SELECTOR, ANTENNA (AS-2) | | 125 | X-4032-226-1 | COVER ASSY, SPEAKER | |
| 113 | * A-1306-454-A | M BOARD, COMPLETE | | 126 | 4-046-160-01 | EMBLEM (NO 9) SONY | |

5-4. PICTURE TUBE (KV-32V16)



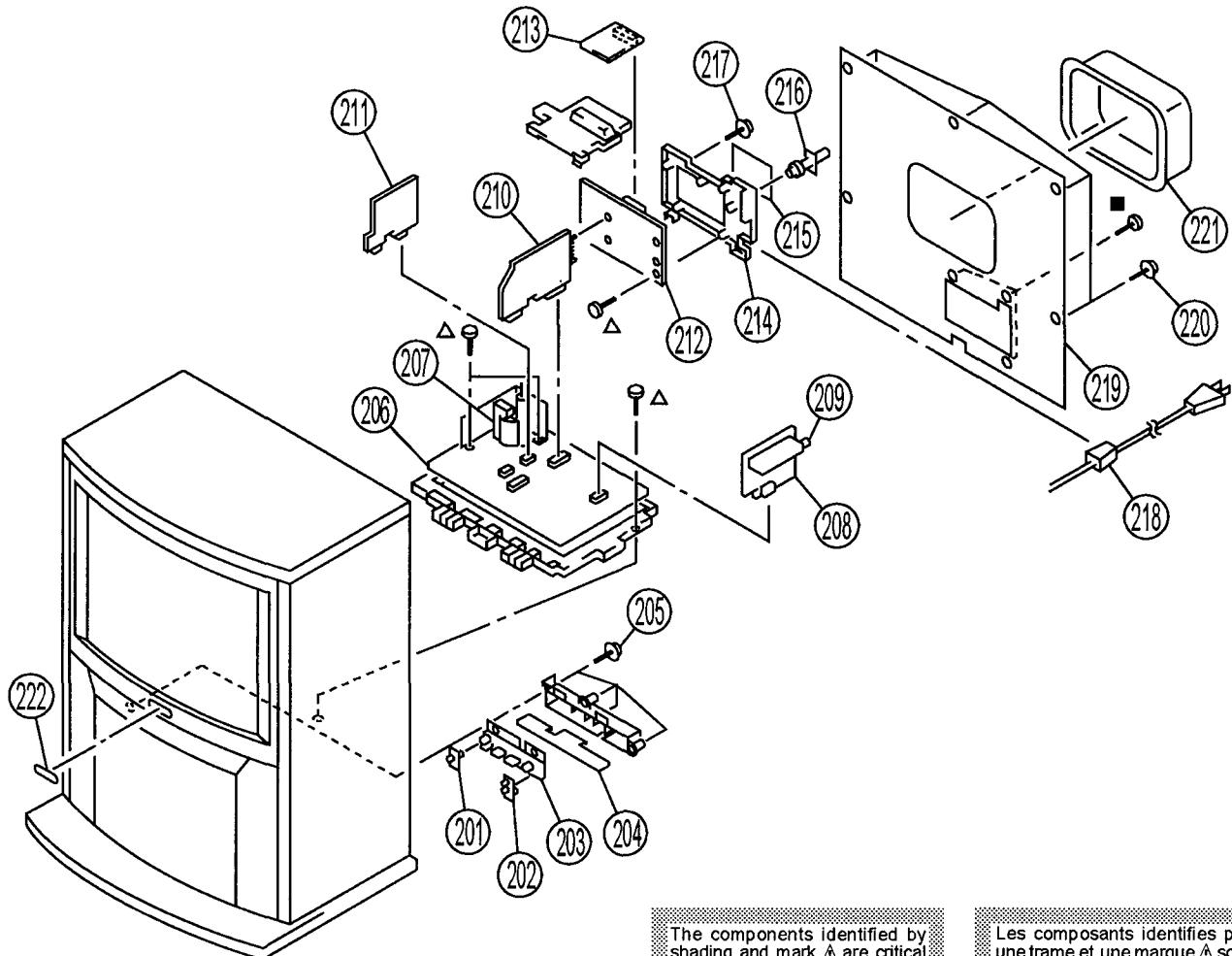
The components identified by shading and mark Δ are critical for safety
Replace only with part number specified

Les composants identifiés par une tache et une marque Δ sont critiques pour la sécurité Ne les remplacer que par une pièce portant le numéro spécifié

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|-----------------------|------------------------------|--------|---------|-----------------------|------------------------------|--------|
| 151 | 4-043-659-01 | PANEL (LEFT), CONTROL | | 161 | Δ 1-402-952-11 | COIL, DEMAGNETIZATION | |
| 152 | 4-043-658-01 | PANEL (RIGHT), CONTROL | | 162 | * 4-371-629-01 | STOPPER, WIRE | |
| 153 | 4-043-433-21 | DOOR, CONTROL | | 163 | 4-033-681-01 | HOLDER, LERD | |
| 154 | * 4-389-517-01 | GUIDE (R), LIGHT | | 164 | 4-041-268-01 | SCREW (7), TAPPING | |
| 155 | 4-043-578-01 | BEZNET | | 165 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 156 | Δ 8-733-739-05 | PICTURE TUBE (A80JYV51X) | | 166 | 1-452-032-00 | MAGNET, DISK, 10MMØ | |
| 157 | 4-041-361-01 | SPACER, DY | | 167 | 1-452-094-00 | MAGNET, ROTATBLE DISK, 15MMØ | |
| 158 | Δ 8-461-315-41 | DEFLECTION YOKE Y34FXA (VTM) | | 168 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |
| 159 | * A-1331-351-A | C BOARD, COMPLETE | | | | | |
| 160 | 4-036-329-01 | SPRING (B), TENSION | | | | | |

5-5. CHASSIS (KV-32TW67/32TW68)

△ +BVTP 4x12 7-685-661-14
 ■ +BVTP 4x16 7-685-663-79



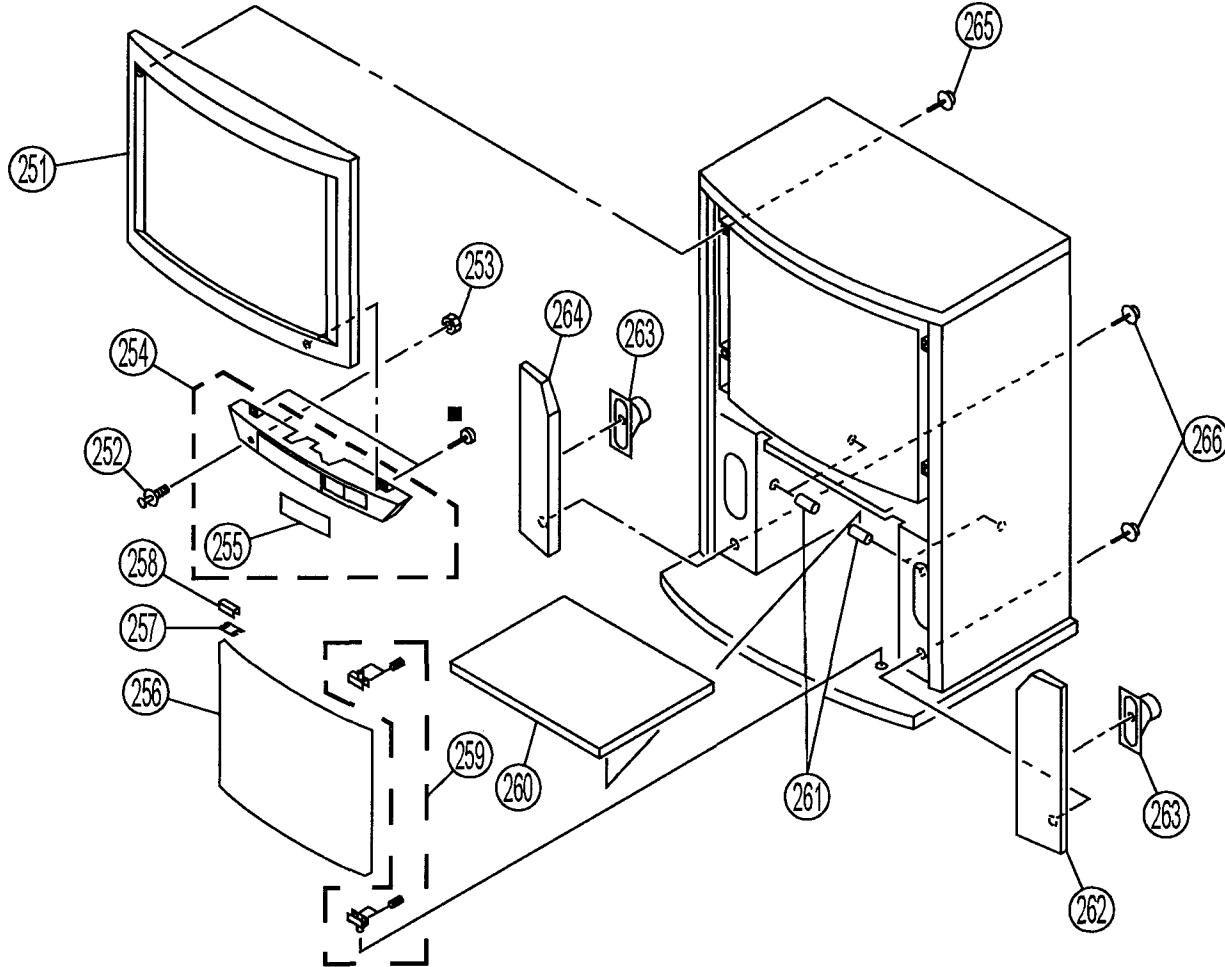
The components identified by shading and mark △ are critical for safety.
 Replace only with part number specified

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié

| REF. NO | PART NO. | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|----------------|---------------------------------------|--------|---------|----------------|---------------------------------------|--------|
| 201 | 4-040-393-01 | FILTER, REMOTE | | 212 | * A-1394-415-A | UA BOARD, COMPLETE | |
| 202 | 4-040-394-01 | GUIDE, LED | | 213 | * A-1195-062-A | P BOARD, COMPLETE | |
| 203 | 4-040-401-01 | HOLDER, CHASSIS | | 214 | 4-039-524-01 | PANEL, ANTENNA TERMINAL | |
| 204 | * A-1372-020-A | H BOARD, COMPLETE | | 215 | 4-039-834-01 | LABEL, TERMINAL | |
| 205 | 4-319-520-11 | SCREW, SPECIAL (+PW4X30) | | 216 | 1-766-374-11 | PLUG, F-PIN | |
| 206 | * A-1346-193-A | D BOARD, COMPLETE | | 217 | 4-382-854-11 | SCREW (M3X10) P. SW (+) | |
| 207 | △ 1-453-146-11 | TRANSFORMER ASSY, FLYBACK (NX-2604A3) | | 218 | △ 1-751-059-11 | CORD, POWER (WITH CONNECTOR) 10A/125V | |
| 208 | * A-1297-432-A | A BOARD, COMPLETE | | 219 | 4-040-523-01 | BOARD, REAR | |
| 209 | △ 8-598-254-00 | TUNER BTF-WA402 | | 220 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | |
| 210 | * A-1306-470-A | M BOARD, COMPLETE | | 221 | 4-032-338-11 | COVER, NECK | |
| 211 | * A-1341-622-A | E BOARD, COMPLETE | | 222 | 3-704-179-01 | EMBLEM (NO 9) SONY | |

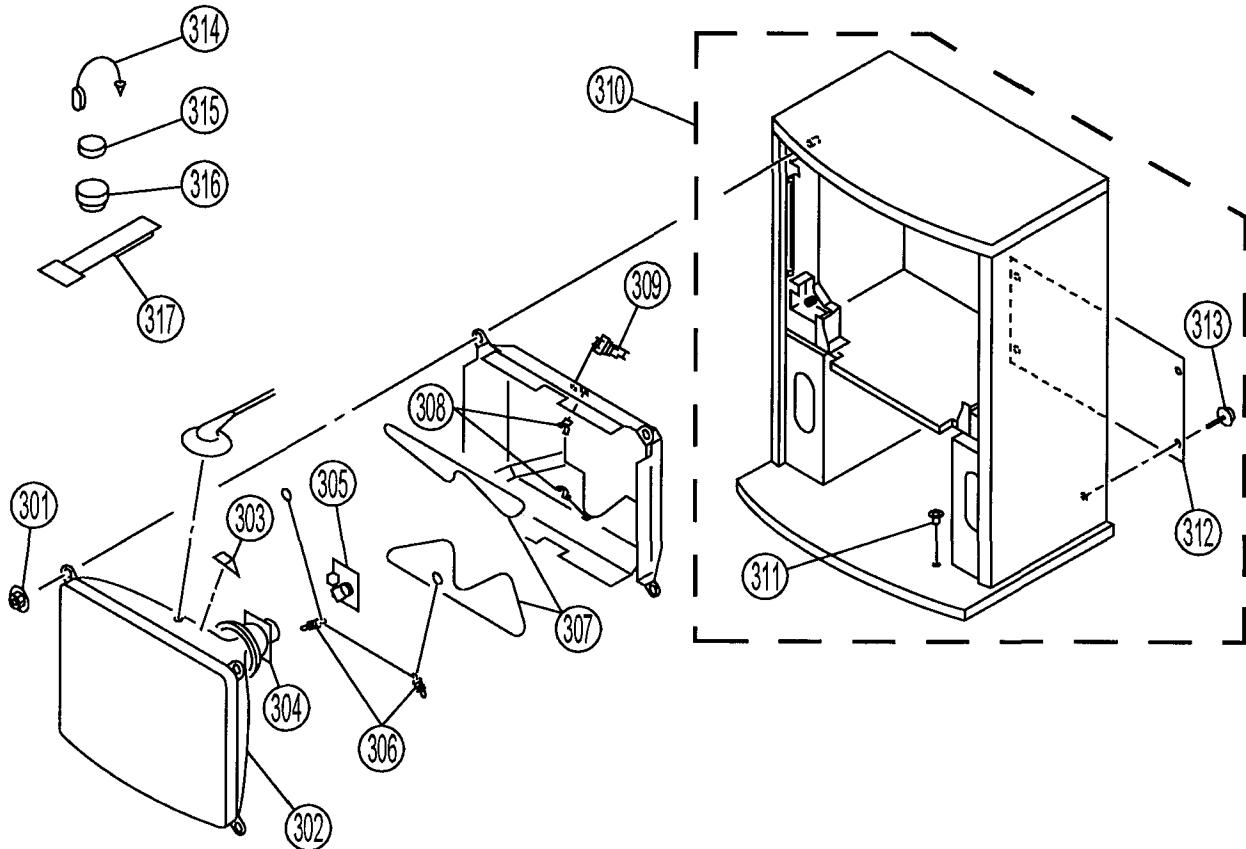
5-6. CONTROL PANEL (KV-32TW67/32TW68)

■ +BVTP 4x16 7-685-663-79



| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|--------------|--------------------|--------|---------|--------------|------------------------------|--------|
| 251 | 4-032-337-11 | BEZEL | | 260 | X-4031-139-1 | PLATE ASSY, RACK | |
| 252 | 4-032-322-02 | MAGNET, PUSH | | 261 | 4-041-162-01 | PIN, RACK | |
| 253 | 4-046-172-01 | NUT, HEXAGON HEAD | | 262 | X-4031-161-1 | GRILLE ASSY (RIGHT), SPEAKER | |
| 254 | X-4031-160-1 | PANELASSY, CONTROL | | 263 | 1-544-549-11 | SPEAKER | |
| 255 | 4-040-047-01 | DOOR, CONTROL | 255 | 264 | X-4031-162-1 | GRILLE ASSY (LEFT), SPEAKER | |
| 256 | X-4031-138-1 | DOOR ASSY, GLASS | | 265 | 4-319-520-11 | SCREW, SPECIAL (+PW4X30) | |
| 257 | 2-352-981-01 | SPACER | | 266 | 4-384-096-01 | SCREW (4X16), TAPPING, +P | |
| 258 | 2-359-505-01 | RETAINER, MAGNET | | | | | |
| 259 | 4-041-362-01 | HINGE SET | | | | | |

5-7. PICTURE TUBE (KV-32TW67/32TW68)



The components identified by shading and mark Δ are critical for safety
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité Ne les remplacer que par une pièce portant le numéro spécifié.

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|-----------------------|------------------------------|---------|---------|--------------|-------------------------------------|--------|
| 301 | 4-387-204-01 | NUT, SPECIAL, CRT | | 311 | 2-112-350-01 | BEARING | |
| 302 | Δ 8-733-739-06 | PICTURE TUBE (A80JY/Y51X) | | 312 | 4-040-389-01 | BOARD, LOWER | |
| 303 | 4-041-361-01 | SPACER, DY | | 313 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | |
| 304 | Δ 8-461-316-41 | DEFLECTION YOKE Y34FXA (VTM) | | 314 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 305 | * A-1331-351-A | C BOARD, COMPLETE | | 315 | 1-452-032-00 | MAGNET, DISC, 10MM ϕ | |
| 306 | 4-033-329-01 | BRACKET, MAIN | | 316 | 1-452-094-00 | MAGNET, ROTATABLE DISK, 15MM ϕ | |
| 307 | Δ 1-402-952-11 | COIL, DEMAGNETIZATION | | 317 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |
| 308 | 4-371-629-01 | STOPPER, WIRE | | | | | |
| 309 | 4-033-681-01 | HOLDER, LEAD | | | | | |
| 310 | * X-4031-163-1 | CABINET ASSY (KV-32TW67) | 311-313 | | | | |
| | * X-4031-163-2 | CABINET ASSY (KV-32TW68) | 311-313 | | | | |

A | M

SECTION 6

ELECTRICAL PARTS LIST

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted

When indicating parts by reference number, please include the board name

• MF CAPACITORS COILS
 μ F, PF $\mu\mu$ F • MMH mH, UH μ H

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

RESISTORS

- All resistors are in ohms
- F nonflammable

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|----------------|---|----------------------|---------|----------------|-------------------------------|--|
| | | * A-1297-221-A A BOARD, COMPLETE (KV-32S12/KV32S16) ***** | | Q173 | 8-729-424-02 | TRANSISTOR | 2SA1162-G (KV-32V16) |
| | | * A-1297-233-A A BOARD, COMPLETE (KV-32V16) ***** | | | | <RESISTOR> | |
| | | * A-1297-432-A A BOARD, COMPLETE (KV-32TW67/KV-32TW68) ***** | | R170 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W (KV-32S12/32S16/32TW67/32TW68) |
| | | <CAPACITOR> | | R173 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) (KV-32V16) |
| | | | | R174 | 1-216-689-11 | METAL GLAZE | 39K 5% 1/10W |
| | | | | R175 | 1-215-900-11 | METAL OXIDE | 22K 5% 2W F (KV-32V16) |
| | | | | R177 | 1-215-900-11 | METAL OXIDE | 22K 5% 2W F |
| C173 | 1-164-232-11 | CERAMIC CHIP | 0 01MF 10% 50V | R179 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W |
| C174 | 1-164-232-11 | CERAMIC CHIP | 0 01MF 10% 50V | R181 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W (KV-32V16) |
| C175 | 1-126-935-11 | ELECT | 470MF 20% 16V | R185 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W (KV-32V16) |
| C176 | 1-126-935-11 | ELECT | 470MF 20% 16V | R187 | 1-216-083-00 | METAL GLAZE | 27K 5% 1/10W |
| C177 | 1-126-964-11 | ELECT | 10MF 20% 50V | R188 | 1-216-689-11 | METAL GLAZE | 39K 5% 1/10W (KV-32V16) |
| C178 | 1-126-933-11 | ELECT | 100MF 20% 16V | R189 | 1-216-083-00 | METAL GLAZE | 27K 5% 1/10W (KV-32V16) |
| C179 | 1-128-551-11 | ELECT | 22MF 20% 25V | R190 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W (KV-32V16) |
| C180 | 1-128-551-11 | ELECT | 22MF 20% 25V | R191 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W (KV-32V16) |
| C181 | 1-164-161-11 | CERAMIC CHIP | 0 0022MF 10% 50V | R193 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W (KV-32S12/32S16/32V16) |
| C182 | 1-164-161-11 | CERAMIC CHIP | 0 0022MF 10% 50V | R196 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W (KV-32V16) |
| C184 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| C185 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| | | <CONNECTOR> | | | | <TUNER> | |
| CN103 | * 1-564-519-11 | PLUG, CONNECTOR 4P | | TU101 | 4-8-598-254-00 | TUNER BTF-WA402 | |
| CN151 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P | | TU102 | 4-8-598-047-11 | TUNER ET-BTF-LA401 (KV-32V16) | |
| CN152 | 1-766-774-11 | CONNECTOR, BOARD TO BOARD 32P | | | | | |
| CN164 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | | | |
| CN165 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | | | |
| | | <DIODE> | | | | | |
| D170 | 8-719-113-92 | DIODE RD33ES-B1 | | | | | |
| D175 | 8-719-113-92 | DIODE RD33ES-B1 (KV-32V16) | | | | | |
| | | <IC> | | | | | |
| IC172 | 8-759-932-67 | IC BU4053BCF (KV-32V16) | | | | | |
| | | <COIL> | | | | | |
| L170 | 1-408-408-00 | INDUCTOR 8 2UH | | C002 | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% 25V |
| L171 | 1-408-408-00 | INDUCTOR 8 2UH | | C003 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| L172 | 1-408-408-00 | INDUCTOR 8 2UH | | C005 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| L173 | 1-408-408-00 | INDUCTOR 8 2UH (KV-32V16) | | C006 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | <TRANSISTOR> | | C007 | 1-124-903-11 | ELECT | 1MF 20% 50V |
| Q172 | 8-729-424-02 | TRANSISTOR | 2SA1162-G (KV-32V16) | C008 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C009 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C010 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C012 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C013 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C014 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| | | | | C015 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |

| REF. NO | PART NO. | DESCRIPTION | | | REMARK | REF. NO | PART NO | DESCRIPTION | | REMARK |
|---------|--------------|--------------|------------------------|-----|--------|---------|----------------|---|---------|----------|
| C016 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C301 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% 50V |
| C017 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C305 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| C018 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C306 | 1-124-902-00 | ELECT | 047MF | 20% 50V |
| C019 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C307 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% 50V |
| C021 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C308 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% 50V |
| C022 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C310 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| C023 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C311 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| C025 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C313 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% 50V |
| C028 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C315 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| C029 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C316 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| C032 | 1-124-902-00 | ELECT | 047MF | 20% | 50V | C317 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| C033 | 1-126-933-11 | ELECT | 100MF | 20% | 10V | C318 | 1-136-165-00 | FILM | 01MF | 5% 50V |
| C034 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C319 | 1-136-165-00 | FILM | 01MF | 5% 50V |
| | | | (KV-32S12/32S16/32V16) | | | C320 | 1-136-165-00 | FILM | 01MF | 5% 50V |
| C035 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C321 | 1-126-952-11 | ELECT | 1000MF | 20% 16V |
| | | | (KV-32S12/32S16/32V16) | | | C322 | 1-136-153-00 | FILM | 001MF | 5% 50V |
| C041 | 1-163-009-11 | CERAMIC CHIP | 0001MF | 10% | 50V | C323 | 1-126-923-11 | ELECT | 220MF | 20% 10V |
| C043 | 1-163-159-00 | CERAMIC CHIP | 12PF | 20% | 50V | C324 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% 50V |
| | | | (KV-32TW67/32TW68) | | | C325 | 1-163-037-11 | CERAMIC CHIP | 0022MF | 10% 25V |
| C045 | 1-126-940-11 | ELECT | 330MF | 20% | 16V | C326 | 1-136-169-00 | FILM | 022MF | 5% 50V |
| C047 | 1-104-896-11 | CERAMIC CHIP | 24PF | 20% | 50V | C327 | 1-136-169-00 | FILM | 022MF | 5% 50V |
| | | | (KV-32TW67/32TW68) | | | C328 | 1-124-902-00 | ELECT | 047MF | 20% 50V |
| C048 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | C329 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| C049 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C330 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| C050 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C332 | 1-164-489-11 | CERAMIC CHIP | 022MF | 10% 16V |
| C051 | 1-163-031-11 | CERAMIC CHIP | 001MF | 50V | | C333 | 1-163-011-11 | CERAMIC CHIP | 00015MF | 10% 50V |
| C052 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C334 | 1-124-902-00 | ELECT | 047MF | 20% 50V |
| C053 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V | C335 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% 50V |
| C054 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V | C336 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| C055 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C337 | 1-124-902-00 | ELECT | 047MF | 20% 50V |
| C056 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | C338 | 1-136-153-00 | FILM | 001MF | 5% 50V |
| C057 | 1-163-017-00 | CERAMIC CHIP | 00047MF | 10% | 50V | C340 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% 50V |
| C058 | 1-163-037-11 | CERAMIC CHIP | 0022MF | 10% | 25V | C342 | 1-106-359-00 | MYLAR | 00047MF | 10% 100V |
| C059 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | | | | | |
| C060 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | | | | |
| C061 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | | | | | |
| | | | (KV-32TW67/32TW68) | | | | | | | |
| C062 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | | | | | |
| C150 | 1-136-165-00 | FILM | 01MF | 5% | 50V | CN129 | * 1-564-521-11 | PLUG, CONNECTOR 6P | | |
| C151 | 1-136-495-11 | FILM | 0068MF | 5% | 50V | CN130 | 1-573-301-21 | CONNECTOR, BOARD TO BOARD 20P | | |
| C152 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | CN131 | * 1-691-914-11 | CONNECTOR, BOARD TO BOARD 15P | | |
| C153 | 1-137-367-11 | FILM | 00033MF | 5% | 50V | CN134 | * 1-564-521-11 | PLUG, CONNECTOR 6P (KV-32S12/32S16/32V16) | | |
| C154 | 1-163-038-91 | CERAMIC CHIP | 01MF | 25V | | CN137 | 1-750-394-11 | PIN, CONNECTOR (STAKING) 32P | | |
| C155 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | CN138 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | |
| C156 | 1-163-135-00 | CERAMIC CHIP | 560PF | 5% | 50V | CN163 | * 1-564-508-11 | PLUG, CONNECTOR 5P (KV-32S12/32S16/32V16) | | |
| C157 | 1-163-038-91 | CERAMIC CHIP | 01MF | 25V | | CN168 | 1-564-505-11 | PLUG, CONNECTOR 2P | | |
| C158 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | | | | |
| C160 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | | | | |
| | | | | | | | | | | |
| C201 | 1-163-017-00 | CERAMIC CHIP | 00047MF | 10% | 50V | | | | | |
| C202 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | D001 | 8-719-404-46 | DIODE MA110 | | |
| C203 | 1-163-989-11 | CERAMIC CHIP | 0033MF | 10% | 25V | D002 | 8-719-404-46 | DIODE MA110 | | |
| C204 | 1-126-933-11 | ELECT | 100MF | 20% | 16V | D004 | 8-719-404-46 | DIODE MA110 | | |
| C205 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | D005 | 8-713-300-57 | DIODE 1T33 | | |
| C211 | 1-163-989-11 | CERAMIC CHIP | 0033MF | 10% | 25V | D006 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C212 | 1-124-902-00 | ELECT | 047MF | 20% | 50V | D007 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C213 | 1-124-902-00 | ELECT | 047MF | 20% | 50V | D008 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C214 | 1-163-017-00 | CERAMIC CHIP | 00047MF | 10% | 50V | D009 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C216 | 1-104-665-11 | ELECT | 100MF | 20% | 25V | D150 | 8-719-404-46 | DIODE MA110 | | |
| | | | | | | D201 | 8-719-404-46 | DIODE MA110 | | |

M

| REF. NO | PART NO. | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|--------------|---|------------------------------|---------|--------------|-----------------|------------------------|
| D202 | 8-719-404-46 | DIODE MA110 | | R018 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| D205 | 8-719-110-17 | DIODE RD10ESB2 | | R019 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| D206 | 8-719-110-17 | DIODE RD10ESB2 | | R020 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| D301 | 8-719-110-17 | DIODE RD10ESB2 | | R021 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| D304 | 8-719-110-17 | DIODE RD10ESB2 | | R022 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| D308 | 8-719-110-17 | DIODE RD10ESB2 | | R023 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R025 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R026 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| | | | <IC> | R027 | 1-216-121-00 | METAL GLAZE | 1M 5% 1/10W |
| IC101 | 8-752-851-01 | IC CXP80424-079S (KV-32S12/32S16/32V16) | | R028 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| IC101 | 8-752-856-00 | IC CXP80424-084S (KV-32TW67/32TW68) | | R029 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| IC102 | 8-759-280-74 | IC ST24C02CB1 | | R030 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| IC103 | 8-759-805-37 | IC L78LR05D-MA | | R031 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| IC150 | 8-759-328-12 | IC Z8622812PSC | | R032 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| IC201 | 8-759-090-21 | IC TDA8424 | | R033 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| IC202 | 8-759-983-69 | IC LM358PS | | R034 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| IC301 | 8-752-059-67 | IC CXA1465AS | | R035 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R036 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R037 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R038 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R039 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| JR200 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R040 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR201 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R041 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| JR202 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R042 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR205 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R043 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| | | | | R044 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| | | | | R045 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| | | | | R046 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| L001 | 1-410-470-11 | INDUCTOR 10UH | | R047 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| L002 | 1-408-414-00 | INDUCTOR 27UH | | | | | (KV-32TW67/32TW68) |
| | | | | R048 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| | | | | R049 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| | | | | R050 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| Q001 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R051 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| Q002 | 8-729-216-22 | TRANSISTOR | 2SA1162-G (KV-32TW67/32TW68) | R052 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| Q004 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R053 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| Q005 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | R054 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| Q151 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | R055 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| Q201 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | | | | (KV-32S12/32S16/32V16) |
| Q301 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R056 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| Q302 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R057 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| Q308 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | R058 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| | | | | R059 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| | | | | R060 | 1-216-079-00 | METAL GLAZE | 18K 5% 1/10W |
| | | | | R062 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W |
| R002 | 1-216-073-00 | METAL GLAZE | 10K | R063 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R003 | 1-216-033-00 | METAL GLAZE | 220 | | | | (KV-32S12/32S16/32V16) |
| R004 | 1-216-033-00 | METAL GLAZE | 220 | R064 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| R005 | 1-216-033-00 | METAL GLAZE | 220 | R065 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| R006 | 1-216-049-91 | METAL GLAZE | 1K | R066 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| R007 | 1-216-033-00 | METAL GLAZE | 220 | R067 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| R008 | 1-216-033-00 | METAL GLAZE | 220 | R069 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R009 | 1-216-033-00 | METAL GLAZE | 220 | | | | (KV-32S12/32S16/32V16) |
| R011 | 1-216-033-00 | METAL GLAZE | 220 | R070 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| R012 | 1-216-033-00 | METAL GLAZE | 220 | | | | (KV-32S12/32S16/32V16) |
| R013 | 1-216-033-00 | METAL GLAZE | 220 | R071 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| R016 | 1-216-033-00 | METAL GLAZE | 220 | | | | (KV-32S12/32S16/32V16) |
| R017 | 1-216-033-00 | METAL GLAZE | 220 | R074 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |

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| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|------------------------------------|----------|--------------|---------------------|---|
| R075 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R304 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W |
| R076 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R305 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W |
| R078 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R306 | 1-216-057-00 | METAL GLAZE | 22K 5% 1/10W |
| R079 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R312 | 1-216-119-00 | METAL GLAZE | 820K 5% 1/10W |
| R080 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R313 | 1-216-079-00 | METAL GLAZE | 18K 5% 1/10W |
| R082 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R321 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| R083 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | R323 | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W |
| R086 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | R324 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| R087 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R327 | 1-208-784-11 | METAL CHIP | 12K 0.50% 1/10W |
| R089 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W (KV-32TW67/32TW68) | R328 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R090 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W (KV-32TW67/32TW68) | R329 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R091 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R330 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| R092 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R331 | 1-216-678-11 | METAL CHIP | 13K 0.50% 1/10W |
| R093 | 1-216-097-00 | METAL GLAZE 100K | 5% 1/10W (KV-32S12/32S16/32V16) | R332 | 1-216-057-00 | METAL GLAZE | 22K 5% 1/10W |
| R093 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) (KV-32TW67/32TW68) | R333 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| R150 | 1-216-097-00 | METAL GLAZE 100K | 5% 1/10W | R334 | 1-216-687-11 | METAL CHIP | 33K 0.50% 1/10W |
| R151 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R335 | 1-216-121-00 | METAL GLAZE | 1M 5% 1/10W |
| R152 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R336 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| R153 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W | R337 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| R154 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W | R338 | 1-249-417-11 | CARBON | 1K 5% 1/4W F |
| R155 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R339 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| R156 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R340 | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W |
| R157 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R341 | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W |
| R158 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R342 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| R159 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R343 | 1-216-053-00 | METAL GLAZE | 15K 5% 1/10W |
| R160 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R344 | 1-216-043-91 | METAL GLAZE | 560 5% 1/10W |
| R161 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R345 | 1-216-109-00 | METAL GLAZE | 330K 5% 1/10W |
| R162 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R346 | 1-216-071-00 | METAL GLAZE | 82K 5% 1/10W |
| R163 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R347 | 1-249-409-11 | CARBON | 220 5% 1/4W F |
| R164 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R348 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R165 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R349 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| R166 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R351 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| R168 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R352 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| R168 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R354 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R201 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R356 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| R202 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R374 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R203 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | R375 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R204 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | | | | <CRYSTAL> |
| R205 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | X001 | 1-567-775-11 | VIBRATOR, CERAMIC | |
| R206 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | X301 | 1-567-505-11 | OSCILLATOR, CRYSTAL | |
| R207 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | | | | ***** |
| R208 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | | | | ***** |
| R209 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | | | | ***** |
| R210 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | | | | ***** |
| R211 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | | | | * A-1346-193-A D BOARD, COMPLETE |
| R212 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | | | | ***** |
| R213 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | | | | (KV-32S12/32S16/32TW67/32TW68) |
| R218 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | | | | ***** |
| R219 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | | | | * A-1346-201-A D BOARD, COMPLETE (KV-32V16) |
| R220 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | | | | ***** |
| R222 | 1-216-089-00 | METAL GLAZE 47K | 5% 1/10W | | | | |
| R223 | 1-216-045-00 | METAL GLAZE 680 | 5% 1/10W | | | | |
| R301 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | | | | |
| R302 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | | | | |
| R303 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | | | | <CAPACITOR> |

* A-1346-193-A D BOARD, COMPLETE

(KV-32S12/32S16/32TW67/32TW68)

* A-1346-201-A D BOARD, COMPLETE (KV-32V16)

1-533-223-11 HOLDER, FUSE
4-382-854-11 SCREW (M3X10), P, SW (+)

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Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|----------------|-------------|-------------------|-------------|----------------|----------------------------|------------------|
| C501 | 1-126-942-61 | ELECT | 1000MF 20% 25V | C614 | 1-164-625-11 | CERAMIC | 680PF 10% 500V |
| C502 | 1-162-131-11 | CERAMIC | 220PF 10% 2KV | C616 | 1-126-964-11 | ELECT | 10MF 20% 50V |
| C503 | 1-126-942-61 | ELECT | 1000MF 20% 25V | C617 | 1-126-953-11 | ELECT | 2200MF 20% 35V |
| C504 | 1-137-366-11 | FILM | 0.0022MF 5% 50V | C618 | 1-126-942-61 | ELECT | 1000MF 20% 25V |
| C505 | 1-128-551-11 | ELECT | 22MF 20% 25V | C619 | 1-126-952-11 | ELECT | 1000MF 20% 16V |
| C506 | 1-128-560-11 | ELECT | 22MF 20% 100V | C620 | 1-164-644-11 | CERAMIC | 330PF 10% 500V |
| C509 | 1-128-551-11 | ELECT | 22MF 20% 25V | C621 | 1-126-356-11 | ELECT | 220MF 20% 160V |
| C510 | 1-106-387-00 | MYLAR | 0.068MF 10% 200V | C623 | 1-102-030-00 | CERAMIC | 330PF 10% 500V |
| C511 | 1-123-024-21 | ELECT | 33MF 160V | C624 | 1-136-155-00 | FILM | 0.015MF 5% 50V |
| C512 | 1-102-212-00 | CERAMIC | 820PF 10% 500V | C625 | 1-129-719-00 | FILM | 0.027MF 10% 400V |
| C513 | 1-102-212-00 | CERAMIC | 820PF 10% 500V | C626 | 1-104-665-11 | ELECT | 100MF 20% 25V |
| C514 | 1-102-244-00 | CERAMIC | 220PF 10% 500V | C634 | 1-165-127-11 | CERAMIC | 470PF 10% 500V |
| C515 | 1-106-367-00 | MYLAR | 0.01MF 10% 100V | C635 | 1-126-967-11 | ELECT | 47MF 20% 16V |
| C517 | 1-162-116-00 | CERAMIC | 680PF 10% 2KV | C636 | 1-137-374-11 | FILM | 0.047MF 5% 50V |
| C518 | 1-162-116-00 | CERAMIC | 680PF 10% 2KV | C637 | 1-128-551-11 | ELECT | 22MF 20% 25V |
| C519 | ▲ 1-104-771-11 | FILM | 0.02MF 3% 2KV | C639 | 1-161-740-00 | CERAMIC | 470PF 10% 400V |
| C520 | ▲ 1-162-134-91 | CERAMIC | 470PF 10% 2KV | C641 | 1-126-933-11 | ELECT | 100MF 20% 10V |
| C521 | ▲ 1-136-316-51 | FILM | 0.056MF 5% 630V | C642 | 1-137-217-11 | FILM | 0.01MF 5% 0 |
| C522 | 1-106-383-00 | MYLAR | 0.047MF 10% 200V | C643 | 1-137-218-11 | FILM | 0.012MF 5% 0 |
| C523 | 1-102-002-00 | CERAMIC | 680PF 10% 500V | C645 | 1-102-125-00 | CERAMIC | 0.0047MF 10% 50V |
| C524 | 1-102-212-00 | CERAMIC | 820PF 10% 500V | C646 | 1-126-933-11 | ELECT | 100MF 20% 16V |
| C525 | 1-124-902-00 | ELECT | 0.47MF 20% 50V | C647 | 1-128-551-11 | ELECT | 22MF 20% 25V |
| C526 | 1-106-395-00 | MYLAR | 0.15MF 10% 200V | C684 | 1-124-667-11 | ELECT | 10MF 20% 50V |
| C527 | 1-109-956-11 | ELECT | 1MF 20% 200V | C695 | 1-126-964-11 | ELECT | 10MF 20% 50V |
| C528 | 1-136-113-00 | FILM | 2MF 5% 200V | C2205 | 1-124-925-11 | ELECT | 2.2MF 20% 50V |
| C529 | 1-106-343-00 | MYLAR | 0.001MF 10% 100V | C2208 | 1-124-925-11 | ELECT | 2.2MF 20% 50V |
| C530 | 1-104-770-11 | FILM | 0.62MF 5% 200V | C2210 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| C531 | 1-104-664-11 | ELECT | 47MF 20% 25V | C2211 | 1-104-664-11 | ELECT | 47MF 20% 25V |
| C532 | 1-136-165-00 | FILM | 0.1MF 5% 50V | C2212 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| C533 | 1-124-927-11 | ELECT | 4.7MF 20% 50V | C2213 | 1-136-173-00 | FILM | 0.47MF 5% 50V |
| C534 | 1-136-161-00 | FILM | 0.047MF 5% 50V | C2215 | 1-136-169-00 | FILM | 0.22MF 5% 50V |
| C535 | 1-126-969-11 | ELECT | 220MF 20% 50V | C2216 | 1-126-941-11 | ELECT | 470MF 20% 25V |
| C536 | 1-108-702-11 | MYLAR | 0.068MF 10% 100V | C2217 | 1-136-169-00 | FILM | 0.22MF 5% 50V |
| C537 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2218 | 1-126-942-61 | ELECT | 1000MF 20% 25V |
| C538 | 1-136-161-00 | FILM | 0.047MF 5% 50V | C2219 | 1-126-942-61 | ELECT | 1000MF 20% 25V |
| C539 | 1-124-925-11 | ELECT | 2.2MF 20% 50V | C2220 | 1-124-925-11 | ELECT | 2.2MF 20% 50V |
| C540 | 1-137-366-11 | FILM | 0.0022MF 5% 50V | <CONNECTOR> | | | |
| C541 | 1-137-366-11 | FILM | 0.0022MF 5% 50V | CN104 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD | 11P |
| C542 | 1-130-481-00 | FILM | 0.0068MF 5% 50V | CN105 | * 1-508-768-00 | PIN, CONNECTOR (5MM PITCH) | 6P |
| C543 | 1-124-927-11 | ELECT | 4.7MF 20% 50V | CN107 | * 1-580-798-11 | CONNECTORPIN (DY) | 6P |
| C544 | 1-164-079-11 | CERAMIC | 330PF 10% 50V | CN108 | * 1-573-296-21 | CONNECTOR, BOARD TO BOARD | 10P |
| C545 | 1-162-815-11 | CERAMIC | 47PF 5% 500V | CN109 | * 1-573-296-21 | CONNECTOR, BOARD TO BOARD | 10P |
| C546 | ▲ 1-162-116-91 | CERAMIC | 680PF 10% 2KV | CN113 | * 1-508-765-00 | PIN, CONNECTOR (5MM PITCH) | 3P |
| C553 | 1-164-079-11 | CERAMIC | 330PF 10% 50V | CN114 | * 1-580-843-11 | PIN, CONNECTOR (POWER) | |
| C561 | 1-107-635-11 | ELECT | 4.7MF 20% 160V | CN115 | 1-573-298-21 | CONNECTOR, BOARD TO BOARD | 20P |
| C598 | 1-109-959-91 | ELECT | 3.3MF 20% 160V | CN116 | * 1-691-915-11 | CONNECTOR, BOARD TO BOARD | 15P |
| C600 | 1-126-964-11 | ELECT | 10MF 20% 50V | CN117 | 1-573-978-21 | CONNECTOR, BOARD TO BOARD | 11P |
| C601 | ▲ 1-136-311-51 | FILM | 0.47MF 20% 125V | <DIODE> | | | |
| C602 | ▲ 1-136-311-51 | FILM | 0.47MF 20% 125V | D501 | 8-719-028-72 | DIODE RGP02-17EL-6433 | |
| C604 | ▲ 1-162-579-81 | CERAMIC | 0.0047MF 20% 400V | D502 | 8-719-979-85 | DIODE EGP20G-PKG23 | |
| C607 | 1-125-735-11 | ELECT | 470MF 20% 200V | D503 | 8-719-979-85 | DIODE EGP20G-PKG23 | |
| C608 | 1-125-735-11 | ELECT | 470MF 20% 200V | D504 | ▲ 8-719-302-44 | DIODE EL1Z | |
| C609 | 1-137-378-11 | FILM | 0.22MF 5% 50V | D505 | 8-719-302-43 | DIODE EL1Z | |
| C610 | 1-136-169-00 | FILM | 0.22MF 5% 50V | | | | |
| C611 | 1-136-169-00 | FILM | 0.22MF 5% 50V | | | | |
| C612 | 1-136-169-00 | FILM | 0.22MF 5% 50V | | | | |
| C613 | 1-164-625-11 | CERAMIC | 680PF 10% 500V | | | | |

The components identified by shading and mark **A** are critical for safety
Replace only with part number specified

Les composants identifies par une trame et une marque sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.

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The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|-----------------|---------------------|----------------|-----------------------|---------------|---------------------|----------------|-----------------------|
| R509 | 1-249-389-11 | CARBON | 47 5% 1/4W F | R625 | 1-249-377-11 | CARBON | 047 5% 1/4W F |
| █ R511 A | 1-249-389-11 | CARBON | 1/4W | R627 | 1-249-377-11 | CARBON | 047 5% 1/4W F |
| R512 | 1-249-389-11 | CARBON | 47 5% 1/4W F | R628 | 1-249-377-11 | CARBON | 047 5% 1/4W F |
| R513 | 1-216-385-11 | METAL OXIDE | 047 5% 3W F | R629 | 1-249-388-11 | CARBON | 39 5% 1/4W F |
| R514 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R630 | 1-215-857-11 | METAL OXIDE | 10 5% 1W F |
| R516 | 1-249-401-11 | CARBON | 47 5% 1/4W | R632 | 1-249-417-11 | CARBON | 1K 5% 1/4W F |
| R517 | 1-215-892-11 | METAL OXIDE | 1K 5% 2W F | R633 | 1-249-405-11 | CARBON | 100 5% 1/4W F |
| R518 | 1-215-892-11 | METAL OXIDE | 1K 5% 2W F | R635 | 1-249-413-11 | CARBON | 470 5% 1/4W F |
| R519 | 1-249-426-11 | CARBON | 56K 5% 1/4W F | R636 | 1-249-383-11 | CARBON | 15 5% 1/4W F |
| R520 | 1-249-423-11 | CARBON | 33K 5% 1/4W | R637 | 1-249-421-11 | CARBON | 22K 5% 1/4W |
| R521 | 1-249-411-11 | CARBON | 330 5% 1/4W | R638 | 1-249-423-11 | CARBON | 33K 5% 1/4W |
| R522 | 1-215-886-11 | METAL OXIDE | 100 5% 2W F | R639 | 1-249-423-11 | CARBON | 33K 5% 1/4W |
| R523 | 1-215-862-11 | METAL OXIDE | 68 5% 1W F | R640 A | 1-202-730-91 | SOLID | 8.2M 20% 1/2W |
| █ R524 A | CARBON | | 1/4W | R643 | 1-216-399-00 | METAL OXIDE | 68 5% 3W F |
| R526 | 1-247-887-00 | CARBON | 220K 5% 1/4W | R644 A | 1-212-853-61 | FUSIBLE | 6.8 5% 1/4W F |
| R527 | 1-215-861-00 | METAL OXIDE | 47 5% 1W F | R645 | 1-249-377-11 | CARBON | 047 5% 1/4W F |
| R528 | 1-247-750-11 | CARBON | 680 5% 1/2W F | R646 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R530 | 1-215-445-00 | METAL | 10K 1% 1/4W | R647 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| R531 | 1-247-903-00 | CARBON | 1M 5% 1/4W | R648 | 1-249-414-11 | CARBON | 560 5% 1/4W |
| R532 | 1-215-446-00 | METAL | 11K 1% 1/4W | R649 | 1-216-431-11 | METAL OXIDE | 560 5% 1W F |
| R534 | 1-249-385-11 | CARBON | 22 5% 1/4W F | R650 | 1-249-405-11 | CARBON | 100 5% 1/4W F |
| R535 | 1-216-453-00 | METAL OXIDE | 270 5% 2W F | R653 | 1-249-381-11 | CARBON | 1 5% 1/4W |
| R536 | 1-249-389-11 | CARBON | 47 5% 1/4W F | R654 | 1-216-385-11 | METAL OXIDE | 047 5% 3W F |
| R539 | 1-215-459-00 | METAL | 39K 1% 1/4W | R655 | 1-249-417-11 | CARBON | 1K 5% 1/4W F |
| R543 | 1-249-419-11 | CARBON | 15K 5% 1/4W | R656 | 1-249-381-11 | CARBON | 1 5% 1/4W |
| R546 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R657 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R547 | 1-247-883-00 | CARBON | 150K 5% 1/4W | R658 | 1-249-389-11 | CARBON | 47 5% 1/4W F |
| R554 | 1-216-371-00 | METAL OXIDE | 15 5% 2W F | R659 | 1-247-883-00 | CARBON | 150K 5% 1/4W |
| R556 | 1-249-411-11 | CARBON | 330 5% 1/4W | R660 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| R557 | 1-249-415-11 | CARBON | 680 5% 1/4W F | R661 | 1-249-406-11 | CARBON | 120 5% 1/4W |
| R561 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R662 | 1-249-393-11 | CARBON | 10 5% 1/4W |
| R562 | 1-215-437-00 | METAL | 47K 1% 1/4W | R663 | 1-247-737-11 | CARBON | 68 5% 1/2W F |
| R563 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R689 | 1-215-861-00 | METAL OXIDE | 47 5% 1W F (KV-32V16) |
| R564 | 1-247-863-91 | CARBON | 22K 5% 1/4W | R690 | 1-249-423-11 | CARBON | 33K 5% 1/4W |
| R566 | 1-249-435-11 | CARBON | 33K 5% 1/4W | R691 | 1-249-423-11 | CARBON | 33K 5% 1/4W |
| R580 | 1-249-411-11 | CARBON | 330 5% 1/4W | R693 | 1-216-371-00 | METAL OXIDE | 15 5% 2W F |
| R602 A | 1-202-723-91 | SOLID | 2.2M 20% 1/2W | R699 | 1-216-492-11 | METAL OXIDE | 82K 5% 3W F |
| R603 | 1-249-419-11 | CARBON | 15K 5% 1/4W | R2209 | 1-249-427-11 | CARBON | 68K 5% 1/4W |
| R605 | 1-247-893-11 | CARBON | 390K 5% 1/4W | R2210 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R606 | 1-247-893-11 | CARBON | 390K 5% 1/4W | R2211 | 1-249-427-11 | CARBON | 68K 5% 1/4W |
| R607 A | 1-202-933-61 | FUSIBLE | 0.1 10% 1/2W F | R2212 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R608 | 1-215-860-11 | METAL OXIDE | 33 5% 1W F | R2215 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| R609 | 1-216-349-00 | METAL OXIDE | 1 5% 1W F | R2216 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R610 | 1-216-369-00 | METAL OXIDE | 1 5% 2W F | R2217 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R611 | 1-216-492-11 | METAL OXIDE | 82K 5% 3W F | R2218 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R613 | 1-215-883-11 | METAL OXIDE | 33 5% 2W F | R2219 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R614 | 1-215-883-11 | METAL OXIDE | 33 5% 2W F | R2220 | 1-249-430-11 | CARBON | 12K 5% 1/4W |
| R615 | 1-249-421-11 | CARBON | 22K 5% 1/4W | R2221 | 1-249-430-11 | CARBON | 12K 5% 1/4W |
| R616 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R2222 | 1-249-398-11 | CARBON | 27 5% 1/4W |
| R617 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2223 | 1-249-418-11 | CARBON | 12K 5% 1/4W |
| R618 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2224 | 1-249-418-11 | CARBON | 12K 5% 1/4W |
| R619 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2225 | 1-249-398-11 | CARBON | 27 5% 1/4W |
| R621 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2226 | 1-249-385-11 | CARBON | 22 5% 1/4W F |
| R622 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2227 | 1-249-385-11 | CARBON | 22 5% 1/4W F |
| R623 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2228 | 1-249-421-11 | CARBON | 22K 5% 1/4W |
| R624 | 1-249-377-11 | CARBON | 047 5% 1/4W F | R2229 | 1-249-421-11 | CARBON | 22K 5% 1/4W |

The components identified by shading and mark **A** are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié

D **H**

| REF. NO | PART NO | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|---------|----------------|---|---------------------------|---------|----------------|---------------------------------|-------------------------------------|
| | | <RELAY> | | D1004 | 1-810-039-31 | LED UNIT | |
| RY601 | A 1-515-516-00 | RELAY | | | | <IC> | |
| RY602 | 1-515-516-00 | RELAY | | IC1001 | 8-741-818-51 | ELEMENT, RAY-CATCHER SBX1818-51 | |
| | | <SWITCH> | | | | <JACK> | |
| S501 | 1-572-707-11 | SWITCH, LEVER | | J1001 | 1-695-585-11 | JACK BLOCK, PIN (LTYPE) 3P | |
| S502 | 1-572-707-11 | SWITCH, LEVER | | | | | |
| | | <TRANSFORMER> | | | | | |
| T501 | A 1-453-146-11 | TRANSFORMER ASSY, FLYBACK (NX-2604A3) | | | | <CHIP CONDUCTOR> | |
| T502 | A 1-437-195-21 | TRANSFORMER, HORIZONTAL DRIVE | | JR1090 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| T503 | A 1-424-545-22 | TRANSFORMER, FERRITE (PMT) | | JR1092 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| T601 | A 1-423-593-11 | TRANSFORMER, LINE FILTER (LFT) | | | | | |
| T602 | A 1-424-220-21 | TRANSFORMER, LINE FILTER | | | | | |
| T603 | A 1-423-563-11 | TRANSFORMER, CONVERTER DRIVE | | | | <TRANSISTOR> | |
| T604 | A 1-423-615-11 | TRANSFORMER, CONVERTER (PDT) | | Q1001 | 8-729-216-22 | TRANSISTOR | 2SA1162-G (KV-32V16) |
| T605 | 1-426-669-11 | TRANSFORMER, CONVERTER (SBT) | | Q1002 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q (KV-32V16) |
| | | <THERMISTOR> | | Q1003 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q (KV-32S12/32S16/32V16) |
| THP601 | A 1-809-539-11 | THERMISTOR, POSITIVE | | | | <RESISTOR> | |
| | | <VARISTOR> | | R1001 | 1-247-804-11 | CARBON | 75 5% 1/4W |
| VDR601 | 1-807-288-11 | VARISTOR | | R1002 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| VDR602 | 1-810-053-11 | VARISTOR | | R1003 | 1-216-113-00 | METAL GLAZE | 470K 5% 1/10W |
| VDR603 | 1-810-053-11 | VARISTOR | | R1004 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| | | ***** | | R1005 | 1-216-113-00 | METAL GLAZE | 470K 5% 1/10W |
| | | * A-1372-020-A H BOARD, COMPLETE (KV-32TW67/32TW68) | | R1007 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| | | ***** | | R1008 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| | | * A-1371-994-A H BOARD, COMPLETE (KV-32S12/32S16) | | R1009 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W |
| | | ***** | | R1010 | 1-216-055-00 | METAL GLAZE | 18K 5% 1/10W |
| | | * A-1371-998-A H BOARD, COMPLETE (KV-32V16) | | R1011 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| | | ***** | | R1012 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| | | | | R1013 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W (KV-32TW67/32TW68) |
| | | | | R1014 | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W |
| | | | | R1015 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| | | | | R1016 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W (KV-32V16) |
| | | <CAPACITOR> | | R1017 | 1-216-105-91 | METAL GLAZE | 220K 5% 1/10W (KV-32V16) |
| C1001 | 1-124-248-00 | ELECT | 22MF 20% 25V | R1018 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W (KV-32V16) |
| C1002 | 1-126-160-11 | ELECT | 1MF 20% 50V | R1019 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W (KV-32V16) |
| C1003 | 1-126-160-11 | ELECT | 1MF 20% 50V | R1021 | 1-216-045-00 | METAL GLAZE | 680 5% 1/10W (KV-32S12/32S16/32V16) |
| C1004 | 1-124-584-00 | ELECT | 100MF 20% 10V | | | | |
| C1010 | 1-124-465-00 | ELECT | 0.47MF 20% 50V (KV-32V16) | | | | |
| | | <CONNECTOR> | | | | | |
| CN154 | * 1-564-520-11 | PLUG, CONNECTOR 5P | | S1001 | 1-571-532-21 | SWITCH, TACTIL | |
| CN155 | 1-564-524-11 | PLUG, CONNECTOR 9P | | S1002 | 1-571-532-21 | SWITCH, TACTIL | |
| CN156 | * 1-564-518-11 | PLUG, CONNECTOR 3P (KV-32TW67/32TW68/32V16) | | S1003 | 1-571-532-21 | SWITCH, TACTIL | |
| | | <DIODE> | | S1004 | 1-571-532-21 | SWITCH, TACTIL | |
| | | | | S1005 | 1-571-532-21 | SWITCH, TACTIL | |
| | | | | S1006 | 1-571-532-21 | SWITCH, TACTIL | |
| | | | | S1007 | A 1-571-532-21 | SWITCH, TACTIL | |

L Z

| <u>REF. NO</u> | <u>PART NO</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | <u>REF. NO</u> | <u>PART NO</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | |
|---|------------------------------|--------------------|---------------|----------------|----------------|--------------------|-----------------|----------------|
| | | | | D920 | 8-719-404-46 | DIODE MA110 | | |
| <hr/> | | | | | | | | |
| | | | | | | <JACK> | | |
| * A-1390-410-A | L BOARD, COMPLETE (KV-32V16) | | | J901 | 1-764-873-11 | JACK | | |
| | | | | J902 | 1-764-874-11 | JACK | | |
| <hr/> | | | | | | | | |
| | | | | | | <CHIP CONDUCTOR> | | |
| <CAPACITOR> | | | | | | | | |
| C1902 | 1-164-004-11 | CERAMICCHIP | 0 1MF | 10% 25V | JR901 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | | JR902 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | | JR903 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | | JR907 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| <CONNECTOR> | | | | | | | | |
| CN1903 | * 1-564-518-11 | PLUG, CONNECTOR 3P | | | | <TRANSISTOR> | | |
| <C> | | | | | | | | |
| IC1903 | 8-759-189-86 | IC IS455J | | | Q901 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| | | | | | Q902 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | | Q903 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | | Q904 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| | | | | | Q905 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| <RESISTOR> | | | | | | | | |
| R1901 | 1-216-133-00 | METAL GLAZE | 3 3M | 5% 1/10W | Q906 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| R1902 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | Q907 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | | Q908 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | | Q909 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | | Q910 | 8-729-422-27 | TRANSISTOR | 2SD601A-QRS-TX |
| <hr/> | | | | | | | | |
| | | | | | Q911 | 8-729-140-93 | TRANSISTOR | 2SB733-34 |
| | | | | | Q912 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| <hr/> | | | | | | | | |
| * A-1390-411-A Z BOARD, COMPLETE (KV-32V16) | | | | | | | | |
| <CAPACITOR> | | | | | | | | |
| C901 | 1-124-903-11 | ELECT | 1MF | 20% 50V | R901 | 1-249-405-11 | CARBON | 100 5% 1/4WF |
| C902 | 1-124-903-11 | ELECT | 1MF | 20% 50V | R902 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| C933 | 1-126-964-11 | ELECT | 10MF | 20% 50V | R903 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| C934 | 1-126-964-11 | ELECT | 10MF | 20% 50V | R904 | 1-216-105-91 | METAL GLAZE | 220K 5% 1/10W |
| | | | | | R905 | 1-216-105-91 | METAL GLAZE | 220K 5% 1/10W |
| <CONNECTOR> | | | | | | | | |
| CN901 | * 1-564-520-11 | PLUG, CONNECTOR 5P | | | R906 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| CN905 | 1-564-517-11 | PLUG, CONNECTOR 2P | | | R907 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| | | | | | R908 | 1-216-005-00 | METAL GLAZE | 15 5% 1/10W |
| | | | | | R909 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W |
| | | | | | R910 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| <DIODE> | | | | | | | | |
| D901 | 8-719-121-24 | DIODE RD9 1ESL | | | R911 | 1-216-105-91 | METAL GLAZE | 220K 5% 1/10W |
| D902 | 8-719-404-46 | DIODE MA110 | | | R912 | 1-216-057-00 | METAL GLAZE | 2 2K 5% 1/10W |
| D903 | 8-719-404-46 | DIODE MA110 | | | R913 | 1-216-101-00 | METAL GLAZE | 150K 5% 1/10W |
| D904 | 8-719-109-93 | DIODE RD6 2ESB2 | | | R914 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| D905 | 8-719-109-66 | DIODE RD3 3ESB2 | | | R915 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| D906 | 8-719-121-24 | DIODE RD9 1ESL | | | R916 | 1-216-065-00 | METAL GLAZE | 4 7K 5% 1/10W |
| D907 | 8-719-404-46 | DIODE MA110 | | | R917 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| D908 | 8-719-404-46 | DIODE MA110 | | | R918 | 1-216-105-91 | METAL GLAZE | 220K 5% 1/10W |
| D909 | 8-719-404-46 | DIODE MA110 | | | R919 | 1-216-057-00 | METAL GLAZE | 2 2K 5% 1/10W |
| D910 | 8-719-404-46 | DIODE MA110 | | | R921 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W |
| D911 | 8-719-404-46 | DIODE MA110 | | | R922 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| D912 | 8-719-404-46 | DIODE MA110 | | | R923 | 1-216-065-00 | METAL GLAZE | 4 7K 5% 1/10W |
| | | | | | R924 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| | | | | | R925 | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W |
| | | | | | R926 | 1-216-025-91 | METAL GLAZE | 100 5% 1/10W |
| | | | | | R927 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |

| REF. NO | PART NO. | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK |
|--|----------------|-------------------------------------|---------------------------------------|--------------------|----------------|---|-------------------------|
| R928 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W | CN146 | 1-573-300-21 | CONNECTOR, BOARD TO BOARD 18P (KV-32V16/32TW67/32TW68) | |
| R929 | 1-249-405-11 | CARBON | 100 5% 1/4W F | CN147 | 1-750-395-11 | SOCKET, CONNECTOR 32P | |
| R935 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | CN148 | 1-564-517-11 | PLUG, CONNECTOR 2P | |
| R936 | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W | CN149 | * 1-564-519-11 | PLUG, CONNECTOR 4P (KV-32V16) | |
| <hr/> | | | | | | | |
| <DIODE> | | | | | | | |
| * A-1394-415-A UA BOARD, COMPLETE (KV-32TW67/32TW68) | | | | D401 | 8-719-110-17 | DIODE RD10ESB2 | |
| ***** | | | | D402 | 8-719-110-17 | DIODE RD10ESB2 | |
| * A-1394-529-A UA BOARD, COMPLETE (KV-32V16) | | | | D403 | 8-719-110-17 | DIODE RD10ESB2 | |
| ***** | | | | D404 | 8-719-110-17 | DIODE RD10ESB2 | |
| * A-1394-676-A UA BOARD, COMPLETE (KV-32S12) | | | | D405 | 8-719-110-17 | DIODE RD10ESB2 | |
| <hr/> | | | | | | | |
| <CAPACITOR> | | | | | | | |
| C401 | 1-163-031-11 | CERAMICCHIP | 0.01MF 50V | D408 | 8-719-110-17 | DIODE RD10ESB2 | |
| C402 | 1-128-551-11 | ELECT | 22MF 20% 25V | D409 | 8-719-110-17 | DIODE RD10ESB2 (KV-32S12/32V16) | |
| C405 | 1-128-551-11 | ELECT | 22MF 20% 25V | D410 | 8-719-110-17 | DIODE RD10ESB2 | |
| C406 | 1-124-903-11 | ELECT | 1MF 20% 50V | D411 | 8-719-110-17 | DIODE RD10ESB2 | |
| C407 | 1-124-903-11 | ELECT | 1MF 20% 50V | D429 | 8-719-110-17 | DIODE RD10ESB2 | |
| C408 | 1-128-551-11 | ELECT | 22MF 20% 25V | D430 | 8-719-110-17 | DIODE RD10ESB2 | |
| C409 | 1-124-903-11 | ELECT | 1MF 20% 50V | D431 | 8-719-110-17 | DIODE RD10ESB2 | |
| C410 | 1-124-903-11 | ELECT | 1MF 20% 50V | D436 | 8-719-110-17 | DIODE RD10ESB2 | |
| C412 | 1-128-551-11 | ELECT | 22MF 20% 25V | D437 | 8-719-110-17 | DIODE RD10ESB2 | |
| C413 | 1-126-964-11 | ELECT | 10MF 20% 50V | <IC> | | | |
| C414 | 1-109-889-11 | ELECT | 1MF 20% 50V | <JACK> | | | |
| C415 | 1-109-889-11 | ELECT | 1MF 20% 50V | J401 | 1-750-515-11 | TERMINAL BLOCK,S 3P | |
| C416 | 1-126-964-11 | ELECT | 10MF 20% 50V | J402 | 1-750-517-11 | JACK BLOCK, PIN 3P | |
| C417 | 1-124-902-00 | ELECT | 0.47MF 20% 50V | J404 | 1-750-516-11 | JACK BLOCK, PIN 2P | |
| C418 | 1-124-902-00 | ELECT | 0.47MF 20% 50V | <CHIP CONDUCTOR> | | | |
| C420 | 1-163-031-11 | CERAMICCHIP | 0.01MF 50V | JR402 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C430 | 1-109-889-11 | ELECT | 1MF 20% 50V (KV-32V16) | JR405 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) (KV-32S12/32V16) |
| C431 | 1-109-889-11 | ELECT | 1MF 20% 50V (KV-32V16) | JR408 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C432 | 1-128-551-11 | ELECT | 22MF 20% 25V (KV-32V16) | JR410 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C433 | 1-104-663-11 | ELECT | 33MF 20% 25V | JR411 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C434 | 1-163-117-00 | CERAMICCHIP | 100PF 5% 50V | JR412 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C440 | 1-126-964-11 | ELECT | 10MF 20% 50V (KV-32TW67/32TW68) | JR415 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C441 | 1-126-967-11 | ELECT | 47MF 20% 16V | JR416 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C442 | 1-163-117-00 | CERAMICCHIP | 100PF 5% 50V (KV-32V16/32TW67/32TW68) | JR418 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C462 | 1-126-933-11 | ELECT | 100MF 20% 16V | JR419 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C470 | 1-126-967-11 | ELECT | 47MF 20% 16V | JR422 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C471 | 1-128-551-11 | ELECT | 22MF 20% 25V | JR428 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| <hr/> | | | | | | | |
| <FILTER BLOCK> | | | | | | | |
| CM401 | 1-467-554-21 | FILTER BLOCK, COMB | (KV-32S12/32V16) | JR429 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| CM402 | 1-466-912-21 | FILTER BLOCK, COMB | (KV-32TW67/32TW68) | JR430 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| <hr/> | | | | | | | |
| <CONNECTOR> | | | | | | | |
| CN141 | * 1-564-520-11 | PLUG, CONNECTOR 5P | | JR431 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| CN142 | 1-564-517-11 | PLUG, CONNECTOR 2P (KV-32S12/32V16) | | JR434 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| CN143 | 1-750-395-11 | SOCKET, CONNECTOR 32P | | JR498 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| CN144 | * 1-564-521-11 | PLUG, CONNECTOR 6P (KV-32V16) | | JR499 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | JR901 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | (KV-32TW67/32TW68) | | | |

UA (KV-32TW67/32TW68)
(KV-32S12/V16)

C

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK | | | | |
|--------------------------|--------------|--|------------------------------|----------------------------------|----------------|-------------------------------|----------|--|--|--|--|
| <COIL> | | | | | | | | | | | |
| L401 | 1-410-473-11 | INDUCTOR 18UH | | R458 | 1-216-033-00 | METAL GLAZE | 220 | | | | |
| L403 | 1-410-476-11 | INDUCTOR 33UH (KV-32V16/32TW67/32TW68) | | R459 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| L404 | 1-410-669-31 | INDUCTOR 33UH (KV-32V16/32TW67/32TW68) | | R460 | 1-216-037-00 | METAL GLAZE | 330 | | | | |
| <TRANSISTOR> | | | | | | | | | | | |
| Q401 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | R461 | 1-216-065-00 | METAL GLAZE | 4 7K | | | | |
| Q405 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R462 | 1-216-065-00 | METAL GLAZE | 4 7K | | | | |
| Q406 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | R463 | 1-216-045-00 | METAL GLAZE | 680 | | | | |
| Q410 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q (KV-32V16) | R464 | 1-216-045-00 | METAL GLAZE | 680 | | | | |
| Q414 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q (KV-32TW67/32TW68) | R475 | 1-216-049-91 | METAL GLAZE | 1K | | | | |
| (KV-32TW67/32TW68) | | | | | | | | | | | |
| Q415 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q (KV-32V16) | R476 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| Q416 | 8-729-216-22 | TRANSISTOR | 2SA1162-G (KV-32V16) | R478 | 1-216-041-00 | METAL GLAZE | 470 | | | | |
| Q417 | 8-729-216-22 | TRANSISTOR | 2SA1162-G (KV-32V16) | R479 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| Q418 | 8-729-216-22 | TRANSISTOR | 2SA1162-G (KV-32V16) | R480 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| <RESISTOR> | | | | | | | | | | | |
| R401 | 1-247-804-11 | CARBON | 75 | R481 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| R402 | 1-216-113-00 | METAL GLAZE | 470K | R482 | 1-249-417-11 | CARBON | 1K | | | | |
| R403 | 1-216-113-00 | METAL GLAZE | 470K | R483 | 1-249-417-11 | CARBON | 1K | | | | |
| R404 | 1-247-804-11 | CARBON | 75 | R488 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| R405 | 1-216-113-00 | METAL GLAZE | 470K | R489 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| (KV-32V16/32TW67/32TW68) | | | | | | | | | | | |
| R406 | 1-216-113-00 | METAL GLAZE | 470K | R490 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | | | |
| R407 | 1-247-804-11 | CARBON | 75 | R491 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | | | |
| R408 | 1-216-113-00 | METAL GLAZE | 470K | R492 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | | | |
| R409 | 1-216-113-00 | METAL GLAZE | 470K | R493 | 1-216-081-00 | METAL GLAZE | 22K | | | | |
| R410 | 1-249-425-11 | CARBON | 4 7K | (KV-32V16/32TW67/32TW68) | | | | | | | |
| ***** | | | | | | | | | | | |
| R411 | 1-249-425-11 | CARBON | 4 7K | * A-1331-351-A C BOARD, COMPLETE | | | | | | | |
| R412 | 1-249-425-11 | CARBON | 4 7K | ***** | | | | | | | |
| R413 | 1-249-425-11 | CARBON | 4 7K | <CAPACITOR> | | | | | | | |
| R414 | 1-247-804-11 | CARBON | 75 | C700 | 1-102-074-00 | CERAMIC | 0 001MF | | | | |
| R415 | 1-249-425-11 | CARBON | 4 7K | C701 | 1-162-114-00 | CERAMIC | 0 0047MF | | | | |
| R416 | 1-216-647-11 | METAL CHIP | 680 | C702 | 1-106-375-12 | MYLAR | 0 022MF | | | | |
| R417 | 1-216-645-11 | METAL CHIP | 560 | C703 | 1-106-375-12 | MYLAR | 0 022MF | | | | |
| R421 | 1-216-065-00 | METAL GLAZE | 4 7K | C705 | 1-107-651-11 | ELECT | 4 7MF | | | | |
| R425 | 1-216-065-00 | METAL GLAZE | 4 7K | C706 | 1-126-933-11 | ELECT | 100MF | | | | |
| R431 | 1-216-049-91 | METAL GLAZE | 1K | C707 | 1-102-129-00 | CERAMIC | 0 01MF | | | | |
| R432 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | C711 | 1-164-083-11 | CERAMIC | 680PF | | | | |
| R434 | 1-216-049-91 | METAL GLAZE | 1K | C712 | 1-164-081-11 | CERAMIC | 470PF | | | | |
| R435 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | C731 | 1-164-083-11 | CERAMIC | 680PF | | | | |
| R439 | 1-216-049-91 | METAL GLAZE | 1K | C732 | 1-164-081-11 | CERAMIC | 470PF | | | | |
| R441 | 1-216-049-91 | METAL GLAZE | 1K | 10% 50V | | | | | | | |
| R442 | 1-216-025-91 | METAL GLAZE | 100 | C751 | 1-164-083-11 | CERAMIC | 680PF | | | | |
| R443 | 1-216-025-91 | METAL GLAZE | 100 | C752 | 1-164-083-11 | CERAMIC | 680PF | | | | |
| R444 | 1-216-095-00 | METAL GLAZE | 82K | 10% 50V | | | | | | | |
| R445 | 1-216-073-00 | METAL GLAZE | 10K | 10% 50V | | | | | | | |
| R446 | 1-216-073-00 | METAL GLAZE | 10K | <CONNECTOR> | | | | | | | |
| R450 | 1-208-774-11 | METAL CHIP | 470 | CN701 | 1-695-915-11 | TAB (CONTACT) | | | | | |
| R451 | 1-216-065-00 | METAL GLAZE | 4 7K | CN702 | * 1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | | | | | |
| R452 | 1-216-025-91 | METAL GLAZE | 100 | CN703 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | | | |
| R453 | 1-216-645-11 | METAL CHIP | 560 | 0 5% 1/10W | | | | | | | |
| R454 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | <DIODE> | | | | | | | |
| R456 | 1-216-041-00 | METAL GLAZE | 470 | D711 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| R457 | 1-216-033-00 | METAL GLAZE | 220 | D712 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |

The components identified by shading and mark **A** are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque **A**
sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié

C **E**

| REF. NO | PART NO. | DESCRIPTION | REMARK | REF. NO | PART NO | DESCRIPTION | REMARK | | | | |
|--------------|----------------|----------------------|--------------|---|--------------|---------------------------|----------------|----------------------------------|--|--|--|
| D731 | 8-719-911-19 | DIODE 1SS119-25 | | R752 | 1-215-924-00 | METAL OXIDE | 15K 5% 3W F | | | | |
| D732 | 8-719-911-19 | DIODE 1SS119-25 | | R754 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | | | | |
| D751 | 8-719-911-19 | DIODE 1SS119-25 | | R756 | 1-249-411-11 | CARBON | 330 5% 1/4W | | | | |
| D752 | 8-719-911-19 | DIODE 1SS119-25 | | R757 | 1-249-393-11 | CARBON | 10 5% 1/4W | | | | |
| D770 | 8-719-911-19 | DIODE 1SS119-25 | | R770 | 1-247-863-91 | CARBON | 22K 5% 1/4W | | | | |
| D771 | 8-719-911-19 | DIODE 1SS119-25 | | R771 | 1-249-409-11 | CARBON | 220 5% 1/4W F | | | | |
| D772 | 8-719-911-19 | DIODE 1SS119-25 | | R772 | 1-249-409-11 | CARBON | 220 5% 1/4W F | | | | |
| D773 | 8-719-911-19 | DIODE 1SS119-25 | | R773 | 1-249-409-11 | CARBON | 220 5% 1/4W F | | | | |
| D777 | 8-719-109-72 | DIODE RD3 9ESB2 | | R774 | 1-249-437-11 | CARBON | 47K 5% 1/4W | | | | |
| D790 | 8-719-911-19 | DIODE 1SS119-25 | | R775 | 1-249-417-11 | CARBON | 1K 5% 1/4W F | | | | |
| D791 | 8-719-911-19 | DIODE 1SS119-25 | | R776 | 1-249-409-11 | CARBON | 220 5% 1/4W F | | | | |
| D792 | 8-719-911-19 | DIODE 1SS119-25 | | R790 | 1-249-413-11 | CARBON | 470 5% 1/4W | | | | |
| R791 | 1-249-412-11 | CARBON | | R791 | 1-249-412-11 | CARBON | 390 5% 1/4W | | | | |
| <JACK> | | | | | | | | | | | |
| J701 | A 1-540-071-11 | SOCKET, PICTURE TUBE | | <VARIABLE RESISTOR> | | | | | | | |
| L701 | 1-410-478-11 | INDUCTOR | 47UH | RV702 | 1-230-641-11 | RES, ADJ, METAL GLAZE | 2 2M | | | | |
| ***** | | | | | | | | | | | |
| <TRANSISTOR> | | | | | | | | * A-1341-622-A E BOARD, COMPLETE | | | |
| Q711 | 8-729-326-11 | TRANSISTOR | 2SC2611 | ***** | | | | | | | |
| Q712 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | 1-508-765-00 PIN,CONNECTOR (5MM PITCH) 3P | | | | | | | |
| Q731 | 8-729-326-11 | TRANSISTOR | 2SC2611 | 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | | | | |
| Q732 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | ***** | | | | | | | |
| Q751 | 8-729-326-11 | TRANSISTOR | 2SC2611 | <CAPACITOR> | | | | | | | |
| Q752 | 8-729-119-78 | TRANSISTOR | 2SC2785-HFE | C1501 | 1-126-941-11 | ELECT | 470MF 20% 16V | | | | |
| Q770 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE | C1502 | 1-137-372-11 | FILM | 0.022MF 5% 50V | | | | |
| Q771 | 8-729-200-17 | TRANSISTOR | 2SA1091-0 | C1503 | 1-102-234-00 | CERAMIC | 270PF 10% 500V | | | | |
| Q772 | 8-729-200-17 | TRANSISTOR | 2SA1091-0 | C1504 | 1-136-165-00 | FILM | 0.1MF 5% 50V | | | | |
| Q773 | 8-729-200-17 | TRANSISTOR | 2SA1091-0 | C1505 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| <RESISTOR> | | | | | | | | | | | |
| R700 | 1-247-739-11 | CARBON | 100 5% 1/2W | C1507 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| R701 | 1-244-941-00 | CARBON | 680K 5% 1/2W | C1509 | 1-136-165-00 | FILM | 0.1MF 5% 50V | | | | |
| R702 | 1-249-496-11 | CARBON | 100K 5% 1/2W | C1510 | 1-137-370-11 | FILM | 0.01MF 5% 50V | | | | |
| R703 | 1-249-496-11 | CARBON | 100K 5% 1/2W | C1516 | 1-136-165-00 | FILM | 0.1MF 5% 50V | | | | |
| R704 | 1-216-398-11 | METAL OXIDE | 5.6 5% 3W F | C1519 | 1-136-104-00 | FILM | 0.16MF 5% 200V | | | | |
| R705 | 1-216-398-11 | METAL OXIDE | 5.6 5% 3W F | C1522 | 1-126-942-61 | ELECT | 1000MF 20% 16V | | | | |
| R710 | 1-247-758-11 | CARBON | 3.3K 5% 1/2W | C1523 | 1-136-177-00 | FILM | 1MF 5% 50V | | | | |
| R711 | 1-247-807-31 | CARBON | 100 5% 1/4W | C1524 | 1-126-963-11 | ELECT | 4.7MF 20% 50V | | | | |
| R712 | 1-215-924-00 | METAL OXIDE | 15K 5% 3W F | C1529 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| R714 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | C1530 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| R716 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C1532 | 1-126-963-11 | ELECT | 4.7MF 20% 50V | | | | |
| R717 | 1-249-393-11 | CARBON | 10 5% 1/4W | C1533 | 1-126-233-11 | ELECT | 22MF 20% 25V | | | | |
| R718 | 1-249-413-11 | CARBON | 470 5% 1/4W | C1542 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| R730 | 1-247-758-11 | CARBON | 3.3K 5% 1/2W | C1550 | 1-136-756-11 | FILM | 0.24MF 5% 200V | | | | |
| R731 | 1-247-807-31 | CARBON | 100 5% 1/4W | <CONNECTOR> | | | | | | | |
| R732 | 1-215-924-00 | METAL OXIDE | 15K 5% 3W F | CN122 | 1-573-299-21 | CONNECTOR, BOARD TO BOARD | 10P | | | | |
| R734 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | CN123 | 1-573-299-21 | CONNECTOR, BOARD TO BOARD | 10P | | | | |
| R736 | 1-249-411-11 | CARBON | 330 5% 1/4W | <DIODE> | | | | | | | |
| R737 | 1-249-393-11 | CARBON | 10 5% 1/4W | D1501 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| R750 | 1-247-758-11 | CARBON | 3.3K 5% 1/2W | | | | | | | | |
| R751 | 1-247-807-31 | CARBON | 100 5% 1/4W | | | | | | | | |

E | P

| REF. NO | PART NO | DESCRIPTION | | | REMARK | REF. NO | PART NO | DESCRIPTION | | REMARK |
|---------|--------------|--------------|---------|-----|--------|---------|--------------|-------------------------------|-----------|--------------|
| C3223 | 1-164-336-11 | CERAMIC CHIP | 0.33MF | | 25V | C3282 | 1-164-346-11 | CERAMIC CHIP | 1MF | 16V |
| C3224 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | | | | | |
| C3225 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | | | | | |
| C3226 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V | | | | | <CONNECTOR> |
| C3227 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | CN150 | 1-573-297-21 | CONNECTOR, BOARD TO BOARD 18P | | |
| C3228 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | | | | | |
| C3229 | 1-163-093-00 | CERAMIC CHIP | 10PF | 5% | 50V | | | | | <DIODE> |
| C3230 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | | | | | |
| C3231 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V | | | | | |
| C3232 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | D3202 | 8-719-031-68 | DIODE HVU359TRF | | |
| C3233 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | D3203 | 8-719-404-46 | DIODE MA110 | | |
| C3234 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | D3208 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C3235 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | D3209 | 8-719-110-17 | DIODE RD10ESB2 | | |
| C3236 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | | | | <IC> |
| C3237 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | | | | |
| C3238 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | IC3200 | 8-759-288-13 | IC MSM51C262-ZS | | |
| C3239 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | IC3201 | 8-759-093-29 | IC MB86144BPF-G-BND | | |
| C3240 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | IC3202 | 8-759-093-28 | IC MB40176PF-G-BND-EF | | |
| C3241 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V | IC3203 | 8-759-093-28 | IC MB40176PF-G-BND-EF | | |
| C3242 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | IC3204 | 8-759-093-25 | IC MB3512PFQ | | |
| C3243 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | IC3205 | 8-759-243-19 | IC TC7SU04F | | |
| C3244 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | | | | | <COIL> |
| C3245 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | | | | |
| C3246 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | | | | |
| C3247 | 1-163-033-91 | CERAMIC CHIP | 0.022MF | | 50V | L3201 | 1-410-470-11 | INDUCTOR 10UH | | |
| C3248 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V | L3202 | 1-408-424-00 | INDUCTOR 180UH | | |
| C3249 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | L3203 | 1-408-424-00 | INDUCTOR 180UH | | |
| C3250 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | L3204 | 1-410-476-11 | INDUCTOR 33UH | | |
| C3251 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | L3205 | 1-410-470-11 | INDUCTOR 10UH | | |
| C3252 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V | L3206 | 1-410-387-11 | INDUCTOR 33UH | | |
| C3253 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | L3207 | 1-410-387-11 | INDUCTOR 33UH | | |
| C3254 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | L3208 | 1-410-387-11 | INDUCTOR 33UH | | |
| C3255 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | L3209 | 1-410-387-11 | INDUCTOR 33UH | | |
| C3256 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | | | | | <TRANSISTOR> |
| C3257 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | | | | | |
| C3258 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | Q3201 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3259 | 1-163-111-00 | CERAMIC CHIP | 56PF | 5% | 50V | Q3202 | 8-729-424-02 | TRANSISTOR | 2SD601A-Q | |
| C3260 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V | Q3203 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3261 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3204 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3263 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3206 | 8-729-424-02 | TRANSISTOR | 2SD601A-Q | |
| C3264 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | | 50V | | | | | |
| C3265 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3207 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3266 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3208 | 8-729-424-02 | TRANSISTOR | 2SD601A-Q | |
| C3267 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3209 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3268 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | Q3210 | 8-729-424-02 | TRANSISTOR | 2SA1162-G | |
| C3269 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | | | | | |
| C3270 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | | 50V | | | | | |
| C3271 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | | 50V | | | | | <RESISTOR> |
| C3272 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | | 50V | | | | | |
| C3273 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V | R3201 | 1-216-097-00 | METAL GLAZE | 100K | 5% 1/10W |
| C3274 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | R3202 | 1-216-073-00 | METAL GLAZE | 10K | 5% 1/10W |
| C3275 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | R3203 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W |
| C3276 | 1-163-111-00 | CERAMIC CHIP | 56PF | 5% | 50V | R3204 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W |
| C3277 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | R3205 | 1-216-121-00 | METAL GLAZE | 1M | 5% 1/10W |
| C3278 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | R3207 | 1-216-295-91 | CONDUCTOR, CHIP | | (2012) |
| C3279 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | R3208 | 1-216-097-00 | METAL GLAZE | 100K | 5% 1/10W |
| C3280 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | R3209 | 1-216-079-00 | METAL GLAZE | 18K | 5% 1/10W |
| | | | | | | R3210 | 1-216-089-00 | METAL GLAZE | 47K | 5% 1/10W |

P**UA (KV-32S16 (US))**

| <u>REF. NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | | <u>REMARK</u> | <u>REF. NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | | <u>REMARK</u> | |
|-----------------|-----------------|--------------------|------|---------------|-----------------|-----------------|--|-------------------------------|---------------|----------------|
| R3211 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | R3273 | 1-216-073-00 | METAL GLAZE | 10K | 5% 1/10W |
| R3212 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | R3274 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W |
| R3213 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | R3275 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W |
| R3214 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W | R3276 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W |
| R3215 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | R3277 | 1-216-298-00 | METAL GLAZE | 2 2 | 5% 1/10W |
| R3216 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | | | | | <CRYSTAL> |
| R3217 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | X3201 | 1-567-878-11 | VIBRATOR, CRYSTAL | | |
| R3218 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | X3202 | 1-567-878-11 | VIBRATOR, CRYSTAL | | |
| R3219 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | | | | | |
| R3220 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | | | | | |
| R3221 | 1-216-655-11 | METAL CHIP | 1 5K | 0 50% | 1/10W | | | | | |
| R3222 | 1-216-655-11 | METAL CHIP | 1 5K | 0 50% | 1/10W | | | | | ***** |
| R3223 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | | | | | |
| R3224 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | | | | | |
| R3225 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | * A-1394-527-A | UA BOARD, COMPLETE (KV-32S16 US MODEL) | | | |
| R3226 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | | | | | ***** |
| R3227 | 1-216-647-11 | METAL CHIP | 680 | 0 50% | 1/10W | | | | | |
| R3228 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | | | | | <CAPACITOR> |
| R3229 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | | | | | |
| R3230 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | C401 | 1-163-031-11 | CERAMIC CHIP | 0 01MF | 50V |
| R3231 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | C402 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| R3232 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | C405 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| R3233 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | C406 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| R3234 | 1-216-651-11 | METAL CHIP | 1K | 0 50% | 1/10W | C407 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| R3235 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | C408 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| R3236 | 1-216-065-00 | METAL GLAZE | 4 7K | 5% | 1/10W | C409 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| R3237 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | C410 | 1-124-903-11 | ELECT | 1MF | 20% 50V |
| R3238 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | C412 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| R3239 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | C413 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| R3241 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | C414 | 1-109-889-11 | ELECT | 1MF | 20% 50V |
| R3242 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | C415 | 1-109-889-11 | ELECT | 1MF | 20% 50V |
| R3243 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | C416 | 1-126-964-11 | ELECT | 10MF | 20% 50V |
| R3244 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | C417 | 1-124-902-00 | ELECT | 0 47MF | 20% 50V |
| R3245 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | C418 | 1-124-902-00 | ELECT | 0 47MF | 20% 50V |
| R3246 | 1-216-069-00 | METAL GLAZE | 6 8K | 5% | 1/10W | C420 | 1-163-031-11 | CERAMIC CHIP | 0 01MF | 50V |
| R3247 | 1-216-063-00 | METAL GLAZE | 3 9K | 5% | 1/10W | C433 | 1-104-663-11 | ELECT | 33MF | 20% 25V |
| R3248 | 1-216-295-91 | CONDUCTOR, CHIP | | (2012) | | C434 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% 50V |
| R3249 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | C441 | 1-126-967-11 | ELECT | 47MF | 20% 16V |
| R3250 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | C442 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% 50V |
| R3251 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | C462 | 1-126-933-11 | ELECT | 100MF | 20% 16V |
| R3252 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | C470 | 1-126-967-11 | ELECT | 47MF | 20% 16V |
| R3253 | 1-216-065-00 | METAL GLAZE | 4 7K | 5% | 1/10W | C471 | 1-128-551-11 | ELECT | 22MF | 20% 25V |
| R3254 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | | | | | |
| R3255 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | | | | | <FILTER BLOCK> |
| R3256 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | | | | | |
| R3259 | 1-216-298-00 | METAL GLAZE | 2 2 | 5% | 1/10W | CM401 | 1-467-554-21 | FILTER BLOCK, COMB | | |
| R3260 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | | | | | <CONNECTOR> |
| R3263 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | | | | | |
| R3264 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | | | | | |
| R3265 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | CN141 | * 1-564-520-11 | PLUG, CONNECTOR 5P | | |
| R3266 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | CN142 | 1-564-517-11 | PLUG, CONNECTOR 2P | | |
| R3267 | 1-216-055-00 | METAL GLAZE | 1 8K | 5% | 1/10W | CN143 | 1-750-395-11 | SOCKET, CONNECTOR 32P | | |
| R3268 | 1-216-053-00 | METAL GLAZE | 1 5K | 5% | 1/10W | CN146 | 1-573-300-21 | CONNECTOR, BOARD TO BOARD 18P | | |
| R3269 | 1-216-057-00 | METAL GLAZE | 2 2K | 5% | 1/10W | CN147 | 1-750-395-11 | SOCKET, CONNECTOR 32P | | |
| R3270 | 1-216-657-11 | METAL CHIP | 1 8K | 0 50% | 1/10W | CN148 | 1-564-517-11 | PLUG, CONNECTOR 2P | | |
| R3271 | 1-216-655-11 | METAL CHIP | 1 5K | 0 50% | 1/10W | | | | | |

| <u>REF. NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | <u>REF. NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> |
|-----------------|-----------------|----------------------|---------------|-----------------|-----------------|--------------------|----------------|
| | | <DIODE> | | Q406 | 8-729-422-27 | TRANSISTOR | 2SB709A-Q |
| D401 | 8-719-110-17 | DIODE RD10ESB2 | | Q410 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| D402 | 8-719-110-17 | DIODE RD10ESB2 | | Q415 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| D403 | 8-719-110-17 | DIODE RD10ESB2 | | Q416 | 8-729-422-27 | TRANSISTOR | 2SB709A-Q |
| D404 | 8-719-110-17 | DIODE RD10ESB2 | | Q417 | 8-729-422-27 | TRANSISTOR | 2SB709A-Q |
| D405 | 8-719-110-17 | DIODE RD10ESB2 | | Q418 | 8-729-422-27 | TRANSISTOR | 2SB709A-Q |
| D408 | 8-719-110-17 | DIODE RD10ESB2 | | | | <RESISTOR> | |
| D409 | 8-719-110-17 | DIODE RD10ESB2 | | R401 | 1-247-408-11 | CARBON | 75 5% 1/4W |
| D410 | 8-719-110-17 | DIODE RD10ESB2 | | R402 | 1-216-113-11 | METAL GLAZE | 470K 5% 1/10W |
| D411 | 8-719-110-17 | DIODE RD10ESB2 | | R403 | 1-216-113-00 | METAL GLAZE | 470K 5% 1/10W |
| D429 | 8-719-110-17 | DIODE RD10ESB2 | | R404 | 1-247-408-11 | CARBON | 75 5% 1/4W |
| D430 | 8-719-110-17 | DIODE RD10ESB2 | | R405 | 1-216-113-00 | METAL GLAZE | 470K 5% 1/10W |
| D431 | 8-719-110-17 | DIODE RD10ESB2 | | R406 | 1-216-113-00 | METAL GLAZE | 470K 5% 1/10W |
| D436 | 8-719-110-17 | DIODE RD10ESB2 | | R407 | 1-247-804-11 | CARBON | 75 5% 1/4W |
| D437 | 8-719-110-17 | DIODE RD10ESB2 | | R408 | 1-216-113-11 | METAL GLAZE | 470K 5% 1/10W |
| | | <IC> | | R409 | 1-216-113-11 | METAL GLAZE | 470K 5% 1/10W |
| IC402 | 8-752-067-28 | IC CXA1545AS | | R410 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| | | <JACK> | | R411 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| J401 | 1-750-515-11 | TERMINAL BLOCK, S 3P | | R412 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| J402 | 1-750-517-11 | JACK BLOCK, PIN 3P | | R413 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| J404 | 1-750-516-11 | JACK BLOCK, PIN 2P | | R414 | 1-247-408-11 | CARBON | 75 5% 1/4W |
| | | <CHIP CONDUCTOR> | | R415 | 1-249-425-11 | CARBON | 47K 5% 1/4W |
| JR402 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R416 | 1-216-647-11 | METAL CHIP | 680 0.5% 1/10W |
| JR405 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R417 | 1-216-645-11 | METAL CHIP | 560 0.5% 1/10W |
| JR408 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R421 | 1-216-065-11 | METAL GLAZE | 47K 5% 1/10W |
| JR410 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R425 | 1-216-065-11 | METAL GLAZE | 47K 5% 1/10W |
| JR411 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R431 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR412 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R432 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| JR415 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R434 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR416 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R435 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| JR418 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R439 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR419 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R441 | 1-216-049-91 | METAL GLAZE | 1K 5% 1/10W |
| JR422 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R444 | 1-216-095-00 | METAL GLAZE | 82K 5% 1/10W |
| JR428 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R445 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| JR429 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R446 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| JR430 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R450 | 1-208-774-11 | METAL CHIP | 470 0.5% 1/10W |
| JR431 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R451 | 1-216-065-00 | METAL GLAZE | 47K 5% 1/10W |
| JR434 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R453 | 1-216-645-11 | METAL CHIP | 560 0.5% 1/10W |
| JR498 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R454 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| JR499 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | R456 | 1-216-041-11 | METAL GLAZE | 470 5% 1/10W |
| | | <COIL> | | R457 | 1-216-033-11 | METAL GLAZE | 220 5% 1/10W |
| L401 | 1-410-473-11 | INDUCTOR 18UH | | R458 | 1-216-033-11 | METAL GLAZE | 220 5% 1/10W |
| L403 | 1-410-476-11 | INDUCTOR 33UH | | R478 | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W |
| L404 | 1-410-669-31 | INDUCTOR 33UH | | R482 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| | | <TRANSISTOR> | | R483 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| Q401 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | R490 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| Q405 | 8-729-422-27 | TRANSISTOR | 2SB709A-Q | R491 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | R492 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| | | | | R493 | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W |

UA (KV-32S16 (Canadian))

| <u>REF. NO</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | <u>REF. NO</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | |
|----------------|-----------------|---|---------------|----------------|-----------------|--------------------|-----------------|-----------|
| | | * A-1394-544-A UA BOARD, COMPLETE (KV-32S16 Canadian MODEL) | ***** | JR412 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | |
| | | | | JR415 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | |
| | | | | JR416 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | |
| | | | | JR418 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | |
| | | <CAPACITOR> | | JR422 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | |
| C401 | 1-163-031-11 | CERAMICCHIP | 0 01MF | 50V | JR423 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C402 | 1-128-551-11 | ELECT | 22MF | 20% 25V | JR424 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C405 | 1-128-551-11 | ELECT | 22MF | 20% 25V | JR428 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C409 | 1-124-903-11 | ELECT | 1MF | 20% 50V | JR429 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C410 | 1-124-903-11 | ELECT | 1MF | 20% 50V | JR430 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C411 | 1-104-665-11 | ELECT | 100MF | 20% 25V | JR431 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C412 | 1-128-551-11 | ELECT | 22MF | 20% 25V | JR434 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C413 | 1-126-964-11 | ELECT | 10MF | 20% 50V | JR435 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C414 | 1-109-889-11 | ELECT | 1MF | 20% 50V | JR499 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) |
| C415 | 1-109-889-11 | ELECT | 1MF | 20% 50V | | | | |
| C416 | 1-126-964-11 | ELECT | 10MF | 20% 50V | | | | |
| C420 | 1-163-031-11 | CERAMICCHIP | 0 01MF | 50V | | | | |
| C441 | 1-126-967-11 | ELECT | 47MF | 20% 16V | | | | |
| C470 | 1-126-967-11 | ELECT | 47MF | 20% 16V | Q401 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q |
| C471 | 1-128-551-11 | ELECT | 22MF | 20% 25V | Q405 | 8-729-216-22 | TRANSISTOR | 2SA1162-G |
| | | | | Q406 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | |
| | | <FILTER BLOCK> | | | | | | |
| CM401 | 1-467-554-21 | FILTER BLOCK, COMB | | | | | | |
| | | <CONNECTOR> | | R401 | 1-247-804-11 | CARBON | 75 | |
| | | | | R402 | 1-216-113-00 | METAL GLAZE | 470K | |
| | | | | R403 | 1-216-113-00 | METAL GLAZE | 470K | |
| | | | | R404 | 1-247-804-11 | CARBON | 75 | |
| | | | | R407 | 1-247-804-11 | CARBON | 75 | |
| | | <DIODE> | | | | | | |
| CN143 | 1-750-395-11 | SOCKET, CONNECTOR 32P | | R412 | 1-249-425-11 | CARBON | 47K | |
| CN147 | 1-750-395-11 | SOCKET, CONNECTOR 32P | | R413 | 1-249-425-11 | CARBON | 47K | |
| | | | | R415 | 1-249-425-11 | CARBON | 47K | |
| | | | | R416 | 1-216-647-11 | METAL CHIP | 680 | |
| | | | | R417 | 1-216-645-11 | METAL CHIP | 560 | |
| | | | | | | | | |
| D401 | 8-719-110-17 | DIODE RD10ESB2 | | R418 | 1-216-025-91 | METAL GLAZE | 100 | |
| D402 | 8-719-110-17 | DIODE RD10ESB2 | | R421 | 1-216-065-00 | METAL GLAZE | 47K | |
| D408 | 8-719-110-17 | DIODE RD10ESB2 | | R425 | 1-216-065-00 | METAL GLAZE | 47K | |
| D409 | 8-719-110-17 | DIODE RD10ESB2 | | R431 | 1-216-045-00 | METAL GLAZE | 680 | |
| D410 | 8-719-110-17 | DIODE RD10ESB2 | | R432 | 1-216-045-00 | METAL GLAZE | 680 | |
| D411 | 8-719-110-17 | DIODE RD10ESB2 | | | | | | |
| | | <IC> | | R434 | 1-216-045-00 | METAL GLAZE | 680 | |
| | | | | R435 | 1-216-045-00 | METAL GLAZE | 680 | |
| | | | | R439 | 1-216-049-91 | METAL GLAZE | 1K | |
| | | | | R440 | 1-216-025-91 | METAL GLAZE | 100 | |
| | | | | R441 | 1-216-049-91 | METAL GLAZE | 1K | |
| | | <JACK> | | | | | | |
| IC401 | 8-759-634-69 | IC M52470P | | R442 | 1-216-025-91 | METAL GLAZE | 100 | |
| IC403 | 8-759-711-32 | IC NJM2245M | | R443 | 1-216-025-91 | METAL GLAZE | 100 | |
| IC404 | 8-759-164-18 | IC MM1118XFF | | R444 | 1-216-095-00 | METAL GLAZE | 82K | |
| | | | | R450 | 1-216-627-11 | METAL CHIP | 100 | |
| | | | | R453 | 1-208-784-11 | METAL CHIP | 12K | |
| | | | | R454 | 1-216-025-91 | METAL GLAZE | 100 | |
| | | <CHIP CONDUCTOR> | | | | | | |
| JR402 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |
| JR405 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |
| JR408 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |
| JR409 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |
| JR410 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |
| JR411 | 1-216-295-91 | CONDUCTOR, CHIP | | | | | | |

The components identified by shading and mark are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié

| <u>REF. NO</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> | <u>REF. NO</u> | <u>PART NO</u> | <u>DESCRIPTION</u> | <u>REMARK</u> |
|----------------|-----------------|--|---------------|----------------|------------------------------|--------------------|---------------|
| | | MISCELLANEOUS | ***** | | | | |
| | 1-402-952-11 | COIL, DEMAGNETIZATION | | | | | |
| | 1-417-178-11 | SELECTOR, ANTENNA (AS-2) (KV-32V16) | | * 4-041-259-01 | BAG, PROTECTION | | |
| | 1-504-524-11 | SPEAKER (8CM) (KV-32V16) | | * 4-041-362-01 | HINGE SET (KV-32TW67/32TW68) | | |
| | 1-504-531-11 | SPEAKER (13 1X6 2CM) (KV-32S12/32S16) | | 4-043-736-01 | FILTER, MOUSE (KV-32V16) | | |
| | 1-544-549-11 | SPEAKER (KV-32TW67/32TW68) | | 4-043-737-01 | HOLDER, FILTER (KV-32V16) | | |
| | 1-751-059-11 | CORD, POWER (WITH CONNECTOR) 10A/125V | | | | | |
| | * 1-751-135-11 | CABLE, PIN (KV-32V16) | | | | | |
| | * 1-751-136-11 | CABLE, PIN (KV-32V16) | | | | | |
| | 1-766-374-11 | PLUG, F-PIN (KV-32S12/32S16/32TW67/32TW68) | | | | | |
| | 8-451-315-41 | DEFLECTION YOKE Y34FXA (VTM) | | | | | |
| V901 | 1-8-733-739-05 | PICTURE TUBE (A80JY151X) | | | | | |
| | | ACCESSORIES AND MATERIALS | ***** | | | | |
| | X-4031-138-1 | DOOR ASSY, GLASS (KV-32TW67/32TW68) | | | | | |
| | 1-769-181-11 | MOUSE, INTERIJENT CABLE (KV-32V16) | | | | | |
| | 2-352-981-01 | SPACER (KV-32WT67/32TW68) | | | | | |
| | 2-359-505-01 | RETAINER, MAGNET (KV-32TW67/32YW68) | | | | | |
| | * 3-704-356-01 | SHEET (STANDARD), PROTECTION (KV-32TW67/32TW68) | | | | | |
| | 3-756-618-21 | MANUAL, INSTRUCTION (ENGLISH) (KV-32TW67 /32TW68) | | | | | |
| | 3-756-618-41 | MANUAL, INSTRUCTION (SPANISH) (KV-32TW67 /32TW68) | | | | | |
| | 3-758-286-21 | MANUAL, INSTRUCTION (ENGLISH) (KV-32S16 (Canadian)) | | | | | |
| | 3-758-286-31 | MANUAL, INSTRUCTION (FRENCH) (KV-32S16 (Canadian)) | | | | | |
| | 3-758-289-21 | MANUAL, INSTRUCTION (ENGLISH) (KV-32S12/32S16 (US)/32V16) | | | | | |
| | 3-758-289-31 | MANUAL, INSTRUCTION (FRENCH) (KV-32S12 (Canadian) /32V16 (Canadian)) | | | | | |
| | 3-758-289-41 | MANUAL, INSTRUCTION (SPANISH) (KV-32S12 (US) /32S16 (US) /32V16 (US)) | | | | | |
| | 3-758-287-21 | MANUAL, INSTRUCTION, CABLE MOUSE (KV-32V16 (US)) | | | | | |
| | 3-758-287-31 | MANUAL, INSTRUCTION, CABLE MOUSE (KV-32V16 (Canadian)) | | | | | |
| | 3-758-287-41 | MANUAL, INSTRUCTION, CABLE MOUSE (KV-32V16 (US)) | | | | | |
| | * 4-030-895-01 | JOINT (KV32TW67/32TW68) | | | | | |
| | * 4-040-144-01 | CUSHION (LOWER) (ASSY) (KV-32S12/32S16) | | | | | |
| | * 4-040-413-01 | CUSHION (LOWER) (ASSY) (KV-32TW67/32TW68) | | | | | |
| | * 4-043-598-01 | CUSHION (LOWER) (ASSY) (KV-32V16) | | | | | |
| | * 4-040-146-01 | INDIVIDUAL CARTON (KV-32S12/32S16) | | | | | |
| | * 4-040-420-02 | INDIVIDUAL CARTON (KV-32TW67/32TW68) | | | | | |
| | * 4-043-599-01 | INDIVIDUAL CARTON (KV-32V16) | | | | | |
| | * 4-040-412-01 | CUSHION (UPPER) (ASSY) (KV-32TW67/32TW68) | | | | | |
| | * 4-043-597-01 | CUSHION (UPPER) (ASSY) (KV-32V16) | | | | | |
| | * 4-044-388-01 | CUSHION (UPPER) (ASSY) (KV-32S12/32S16) | | | | | |
| | * 4-040-414-01 | Sheet, CORRUGATED FIBERBOARD (KV-32TW67/32TW68) | | | | | |
| | * 4-040-416-01 | TRAY (KV-32TW/32TW68) | | | | | |
| | 4-041-162-01 | PIN, RACK (KV-32TW67/32TW68) | | | | | |

KV-32S12/32S16/32TW67
RM-Y116 RM-Y121 RM-Y118
KV-32TW68/32V16
RM-Y118 RM-Y121

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Consumer A&V Products Company
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